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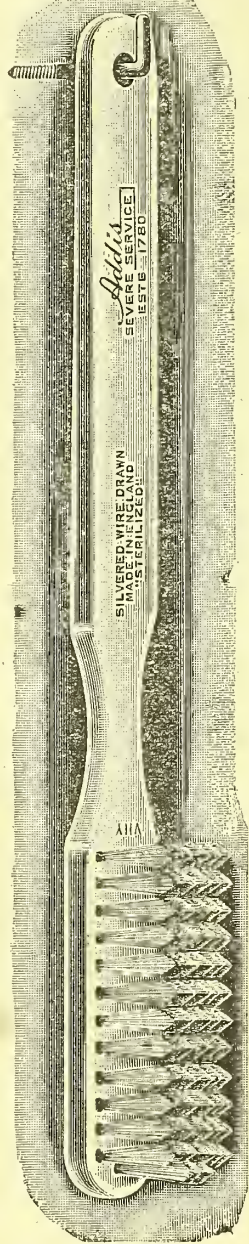
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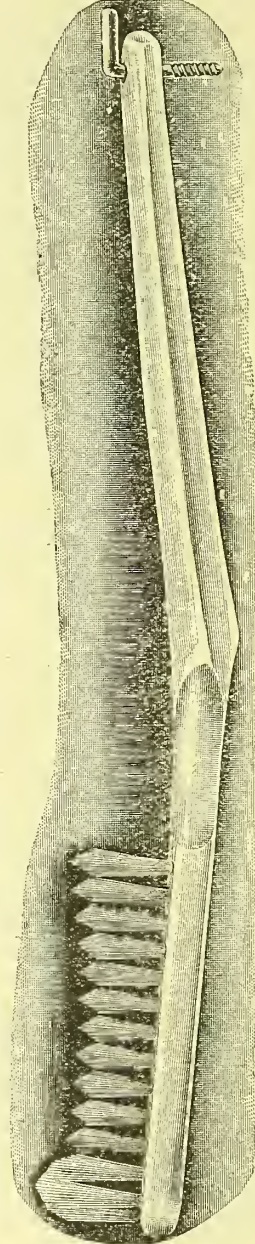
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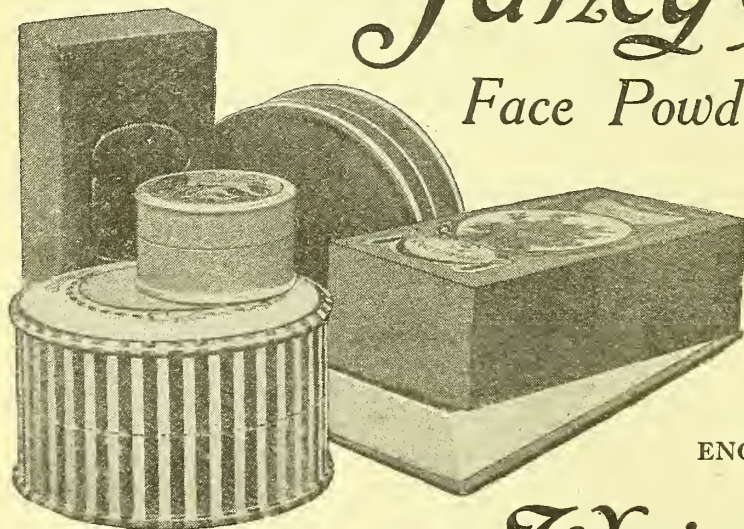
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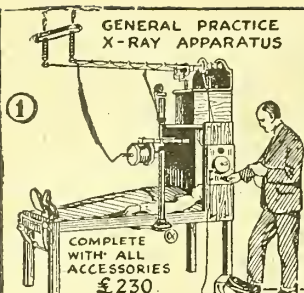
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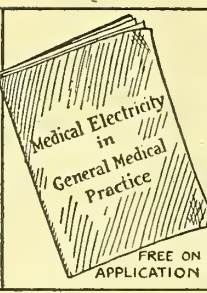
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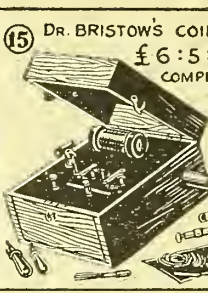
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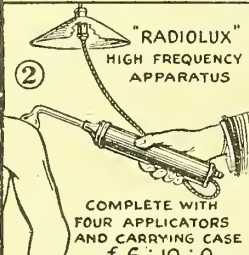
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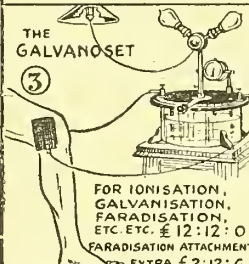
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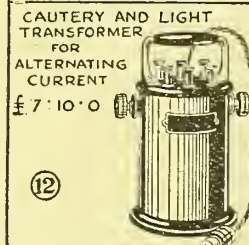
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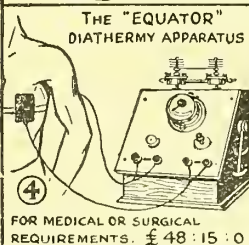
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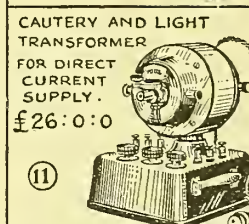
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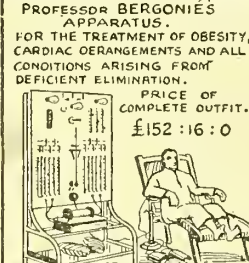
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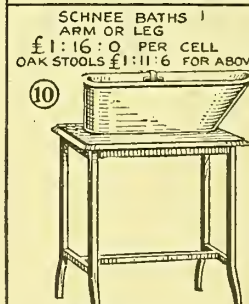
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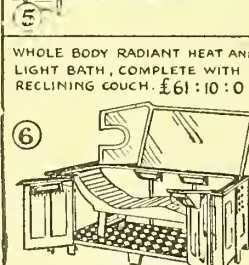


PRICE OF COMPLETE OUTFIT.
£152:16:0

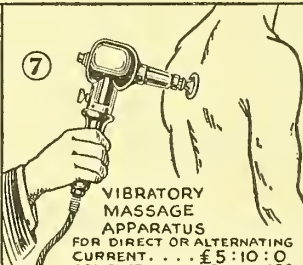
10 SCHNEE BATHS 1 ARM OR LEG
£1:16:0 PER CELL
OAK STOOLS £1:11:6 FOR ABOVE



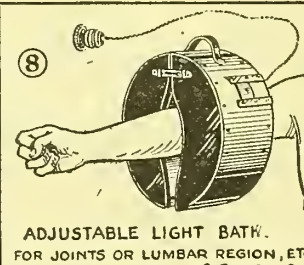
6 WHOLE BODY RADIANT HEAT AND LIGHT BATH, COMPLETE WITH RECLINING COUCH. £61:10:0



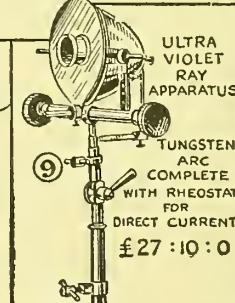
7 VIBRATORY MASSAGE APPARATUS FOR DIRECT OR ALTERNATING CURRENT. . . . £5:10:0
COMPLETE WITH APPLICATORS AND CARRYING CASE.



8 ADJUSTABLE LIGHT BATH. FOR JOINTS OR LUMBAR REGION, ETC.
£8:0:0.



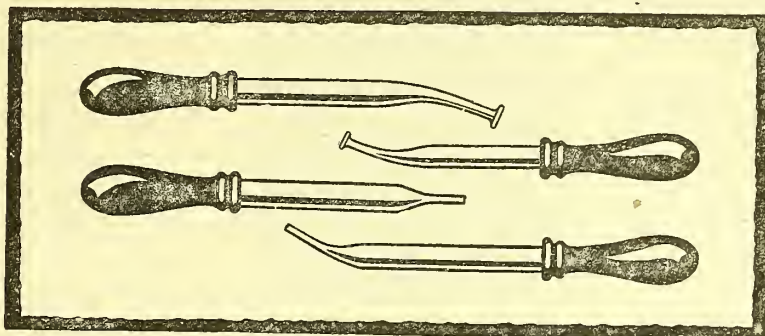
9 ULTRA VIOLET RAY APPARATUS
TUNGSTEN ARC COMPLETE WITH RHEOSTAT FOR DIRECT CURRENT.
£27:10:0



Maw's



Page



9/3528

9/3522

9/3529

9/3527

Medicine and Eye Droppers.

Medicine and Eye Droppers are another of those lines belonging to the Surgical Sundries Section of the pharmacy, which, rightly handled, are a continual source of profit to the chemist.

The four droppers detailed below are thoroughly reliable and commendable, the glass employed in their manufacture being of high standard and the rubber of the finest quality.

9/3528. Bent tube with protecting flange. Transparent teat. Large size.

In boxes of one dozen.

Per dozen 3/-

Each dropper in box - per dozen 3/9

9/3522. Made with a straight tube; transparent teat.

In boxes of one dozen.

Per dozen 2/-

Each dropper in box - per dozen 3/-

9/3529. As 9/3528, but smaller in size.

In boxes of one dozen.

Per dozen 3/-

Each dropper in box - per dozen 3/9

9/3527. Made with bent tube; transparent teat.

In boxes of one dozen.

Per dozen 1/6

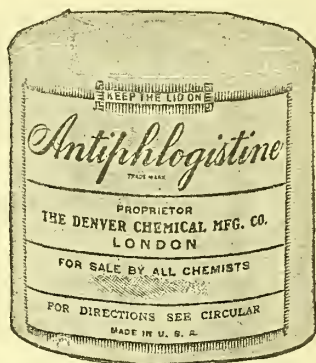
Each dropper in box - per dozen 2/6

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



ANTIPHLOGISTINE

Write for quotation
and secure extra
discounts.



Write for quotation
and secure extra
discounts.

THE DENVER CHEMICAL MFG. CO.

41 ST. ANN'S ROAD - - - LONDON, E.3

ASPIRIN B.P. (P.M. Brand)

Of consistent high quality since 1914. Supplied in any particular form desired by users — crystalline, powder, granular, etc.

SALICYLIC ACID

Of remarkable purity, above official requirements.

Buyers—large and small—are invited to write for samples and prices, both of which will be found entirely satisfactory.

PIERSON, MORRELL & CO., LTD. (The Original British Aspirin Makers),

Telephone No.:
Barnet 723.

100 QUEEN'S ROAD, BARNET.

Telegrams and Cables:
"Pierson Morrell, Barnet."

EDWARDS & GRITTON.

Telephone : Woolwich 804.

Telegrams : "Edwagritt-Wol-London."

**ANCONA WORKS,
PLUMSTEAD HIGH STREET, S.E.18**

SYRUP OF FIGS. An Ideal Laxative.
3 oz. 4/6, 4 oz. 5/6, 6 oz. 7/6, 8 oz. 9/6 per doz.

ASPIRIN TABLETS. 5 gr.
25's 2/9, 50's 4/6, 100's 8/6 per doz.

CASCARA TABLETS. 2 gr.
25's 2/9, 50's 4/6, 100's 8/6 per doz.

SULPHUR TABLETS.
Lime, Orange or Raspberry, in 2 and 4 oz.
Cartons, 2/- and 3/6 per doz.

ALL CARTONED AND BOXED IN DOZENS.

"SALVITAE"

THE BEST URIC ACID SOLVENT

for Diseases of the Kidneys and Urethral Tract.

Per **4/6** Bottle

WHOLESALE PRICE,

42/= per dozen

Supplies can be obtained through
any Wholesale House.

*AN extensive Medical Advertising
and Detail Propaganda is
now commencing, and the trade is
advised to hold stocks in view of
the demand.*

SOLE AGENT FOR GREAT BRITAIN AND IRELAND:—

LIONEL COOPER

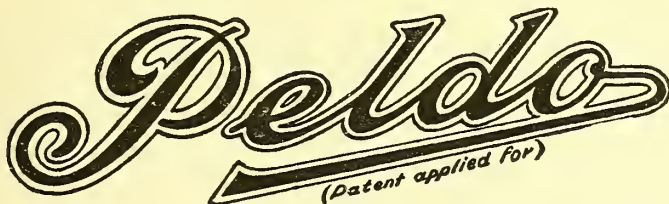
14 Henrietta Street, Covent Garden, W.C.2

Tel. No.: REGENT 7657.

SOLE PROPRIETORS:

THE AMERICAN APOTHECARIES CO.

299 ELY AVENUE,
LONG ISLAND CITY,
NEW YORK.



**THE
INVISIBLE
GLOVE**

IF YOU SHOW 'PELDO' YOU WILL SELL IT!

'PELDO' IS ORIGINAL.

It is not a Substitution for Anything.

Obtainable from all the Patent Houses @ **13/6** per dozen.

WINDOW DISPLAY MATERIAL FREE ON APPLICATION.

SOLE PROPRIETORS AND MANUFACTURERS:

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf,

EMMOTT STREET, MILE END, LONDON, E.1.

LITTLE BLACK DEVILS

(REGD.)

MENTHOL AND
LIQUORICE,

FOR
VOICE AND
THROAT



Don't be Out
of Stock of the
SMARTEST AND
BEST SELLING
LINE.

Gross Quantities 45/-
Smaller „ 48/-
(less 2½% month)
CARRIAGE PAID.

Special Terms
to Wholesale
Buyers.

Samples mailed on receipt of post card.

BEWELLS LTD.

Manufacturing Chemists,

19/21 PITFIELD STREET, LONDON, N.1.

Phone: Clerkenwell 5521.

Per Tin

6^{d.}

Retail

POPULAR

PRICE

SYRUP

ROBORAN

(ROBERTS)

Recognised by the Medical Profession as
THE BEST TONIC.

Supplied in 8-oz. and 16-oz. Bottles by all the
Wholesale Houses.

Inquiries Invited for
**NEW & RARE
MEDICINES**

of French, Italian and Russian Origin.

ROBERTS & CO.,

76 New Bond Street,
London, W.

5 Rue de la Paix,
Paris.

*Daily News
Daily Mirror
Daily Chronicle
Daily Express
DAILY SKETCH
Sunday Express
SUNDAY COMPANION
CHRISTIAN HERALD*

*Nine out of every ten
of your customers need
Nerve Nourishment*

These are a few of
the papers which
push the sales of

RADIOSAN

There is a great epidemic of neurasthenia and nervous disorders. Thousands of sufferers need nerve-nourishment. RADIOSAN, THE EMBODIMENT OF A GREAT DISCOVERY, IS MEETING WITH A GREAT POPULAR DEMAND. The results achieved by its use have made it rank well to the fore in public favour. Consistent advertising in the newspapers above and many others are promoting large and ever-increasing sales. Now is the time to see that your stocks are ample.

3/- size and 12/- size.

RADIOSAN LTD., 81 Lamb's Conduit St., W.C.

RADIOSAN

HOT WATER BOTTLES

- ☞ An early start with the right article is the surest way to a record season.
- ☞ Single sample at quoted price post free to any Trading Chemist.
- ☞ Book your contract now—we protect you against price increase no matter what the state of the rubber market, and give you immediate advantage if prices are lowered during the contract period.

BRITISH made from the very finest materials, and under the most advanced manufacturing conditions. Every bottle is guaranteed burst-proof, because it is built with steam resisting rubber incorporated with a texture support. All seams are reinforced and are of extra width—a little point which means much. The valve is an improved type, flush with the neck so that no metal portion is unprotected. Other refinements include an extra deep neck support, giving additional strength and longer life to the bottle, and an extra wide funnel is provided for convenience and protection whilst filling.

HOT WATER BOTTLES

Finest Grey Rubber.

		8×6	10×6	10×8	12×6	
Singles	..	2/10	3/1	3/4	3/3	each
1 dozen Assorted		2/9	3/-	3/3	3/2	"
3 dozen Assorted		2/8	2/11	3/2	3/1	"
		12×8	12×10	14×8	14×10	
Singles	..	3/10	4/6	4/3	4/10	each
1 dozen Assorted		3/9	4/4	4/2	4/9	"
3 dozen Assorted		3/8	4/3	4/1	4/8	"

Chemist's own name moulded on three dozen lots.

Finest Red Rubber.

		10×8	12×8	12×10	
Singles	..	4/4	4/9	5/5	each
1 dozen	..	4/3	4/8	5/4	"
3 dozen	..	4/1	4/6	5/2	"

Moulded (Red Rubber) Bottles.

		2 quart—10×7	3 quart—11¼×7½	
Singles	..	5/3	6/3	each
1 dozen	..	5/2	6/2	"
3 dozen	..	5/-	6/-	"

Special quotations for 6 and 12 dozen quantities.

Get a sample and compare quality for price

DISPLAY—Is there anything more difficult to put on show than a Hot Water Bottle? You are dealing with expensive units, and the risk of spoilage by sun and dust is considerable. A rubber bottle falls "all of a lump" in the window and looks an untidy mess—certainly not an inducement for the public to stop and look. None of the rules of display can be followed—unless you have Ayrton's three-panel display screen, which needs only one Hot Water Bottle to make a "stop-the-people" Window Show.

AYRTON, SAUNDERS & CO., LTD.
"Everything Pharmaceutical." **LIVERPOOL.**

Do the salts you sell uphold your reputation as a chemist?

*Don't gamble with the health of your
customers—their faith in you is the
backbone of your business*

How often your word takes the place of the doctor's! How strongly people rely on your advice!

Your whole professional reputation, your standing as a chemist, depends on the respect your customers have for your counsel.

That is why chemists recommend Sal Hepatica.

This remarkable salt does more than clear the system of poisonous waste. It also encourages the intestines, the liver, and the kidneys to do *their own work in their own way*.

Based on an analysis of the "bitter" waters of Czecho-Slovakian spas, the most famous mineral springs in the world, it contains their principal salts in correct proportion, as well as lithium citrate. This specific for gout and rheumatism is *totally lacking* in all other salts on the market.

20 years of doctors' prescriptions
After twenty years of sound but

restricted popularity through doctor's prescriptions, Sal Hepatica is now being advertised regularly throughout the United Kingdom, in newspapers that reach over four and a half million households every Sunday. Already the evidences of public appreciation are amazing. Five times as much Sal Hepatica is being sold to-day as was sold a year ago!

A salt you can recommend

Here, at last, is a truly ethical product that you can recommend with profit to your good repute and your pocket at the same time. Begin to-day to get your share of this growing business. Make use of our free display material. Remind your customers of the remarkable salt they have seen advertised. It will mean a satisfied customer every time—and a regular customer, too, with confidence in your advice. Bristol-Myers Company, 112, Cheapside, London, E.C.2.

Sal Hepatica

The "Chemist's Own"



RETAIL
PRICES
1/- & 2/-
TRADE
8/- & 16/-
PER DOZEN

Both sizes are on the P.A.T.A. and they are not supplied to the Grocery Trade.

The superiority of Mineral Spring over other effervescibles is not a vague generality, but something that can easily be recognised by Pharmacists and their customers — the crisp refreshing taste, the prolonged effervescence, the crystal-clear sparkle, the excellent keeping properties are points in which we welcome comparison with rival products. 'Mineral Spring' is Kerfoot quality and Kerfoot quality is Chemists' quality.

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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**Important Note
to Chemists
without Licenses**

It has been established by law that Registered Chemists may sell Wincarnis with Quinine without a License.



**Sells readily ALL
the time.**

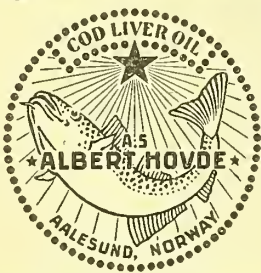
COLEMAN & CO., Ltd., Wincarnis Works, Norwich

**Prices to
the Public:**

Large Size **5/-**

Small Size **3/-**

NORWEGIAN COD LIVER OIL



FINEST STEAM REFINED, NON-FREEZING LOFOTEN, MEDICINAL.

Stocks in London, Liverpool, Hull, Glasgow.

ALBERT HOVDE, Ltd., Aalesund, Norway.

Established 1882.

Manufacturers and Exporters.

Factories in Lofoten.

Sole Selling Agents for U.K.:

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Telephone: Royal 3511.

Telegrams: "Omy, Fen, London."

MANUFACTURERS DIRECT SUPPLIES

CASEIN

1. White Soluble Flocculent "CASUMEN" containing nearly 90% pure proteid. In bulk or ½-lb. or ¼-lb. packets or tins.
2. Fine White Casein. Bulk only.

MODIFIED DRIED FULL CREAM MILK "DORSELLA"

Supplied in bulk. In 1-lb. packets. Or in decorated tins containing 5, 10 and 16 oz. with literature.

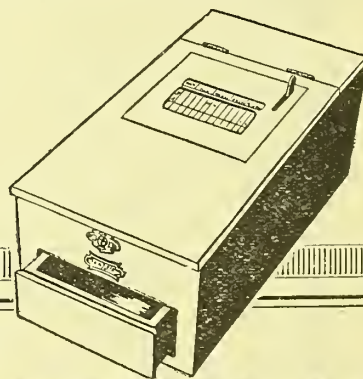
(This is the finest form of milk food for infants and invalids and can be used for babies who cannot be breast fed from birth. Composition and bacteriological purity approved by doctors and nurses. 1-lb. airtight tins can be supplied to retail at 2/6.)

PRIDEAUX'S PURE CASEIN CO. LTD.

MOTCOMBE, DORSETSHIRE, and
16 Southwark St., LONDON, S.E.1.

ESTD. 1879.

Eight factories in Dorset, Somerset and Wilts.



The NATIONAL Autographic Till

Price

75/-

Net.

Size: 8¾" high, 10" wide, 19" long. Writing space, 4¾" wide. Record roll ruled for four classes of transactions.

Made in Solid Oak and fully guaranteed.

Write for further details:

**The National Cash Register Co., Ltd.,
225 Tottenham Court Rd., London, W.1**



EFFERVESCENT HEALTH SALT

OF EXCELLENT QUALITY
IN DECORATED TINS OF
VERY ATTRACTIVE AND
EXCLUSIVE DESIGN.

4/6 per dozen. 6 dozen at 4/3 dozen. 48/- per gross.

SALINES. LEMONADE CRYSTALS.
EFFERVESCENT CITRATE OF
MAGNESIA.

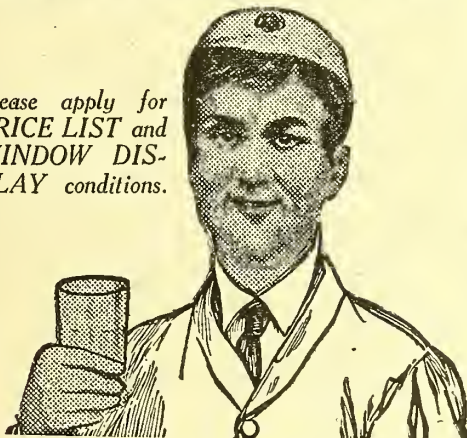
LEMON SQUASH
AND LIME JUICE CORDIAL.

LORIMER-MARSHALL, LTD.

Manufacturing Chemists,
12 TOWER HILL, LONDON, E.C.3

MASON'S Extract of Herbs

Please apply for
PRICE LIST and
WINDOW DIS-
PLAY conditions.



"GOOD! IT'S MASON'S!"

NEWBALL & MASON LTD.
NOTTINGHAM



SELL British Empire HONEY

Make a good display of the best of
the WORLD'S HONEY. It is called

"Imperial Bee"

New Zealand Honey

and has the largest sale in the world.

GUARANTEED PURE and WITHOUT
PRESERVATIVES. Uncooked and unheated,
it therefore contains the essential vitamins.

CASES per dozen, carriage paid.

48/1's Glass Screw-top Jars at	14/-
48/1 1/2's " " " at	8/6
48/1's Monopots - - - at	12/6
48/1 1/2's " " " at	7/3

If you cannot obtain supplies through your Wholesaler, write to

A. J. Mills & Co., Ltd., 14 Tooley St., London, S.E.1

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ... A complexion soap.	10/-	1/-
PROLACTUM ... For the lips.	10/-	1/-
PARSIDUM JELLY ... For wrinkles.	10/-	1/-
ALLACITE OF ORANGE BLOSSOM ... A dressing cream.	22/6	2/6
BORANIUM ... A hair tonic.	22/6	2/6
CLEMINITE ... For a face lotion.	22/6	2/6
COLLIANDUM ... For a face tint.	22/6	2/6
PERGOL ... A deodorant.	22/6	2/6
TEKKO PASTE ... Camphor cream.	22/6	2/6
STALLAX ... For a shampoo.	22/6	2/6
JETTALINE ... For clearing the skin.	31/6	3/6
PHENINOL ... A depilatory.	36/-	4/-
MENNALINE ... For the eyelashes.	36/-	4/-
MERCOLIZED WAX ... A face cream.	18/- 31/6	2/- 3/6
STYMOL ... For oily complexions and blackheads.	36/-	4/-
SILMERINE ... Hair-curling fluid.	22/6	2/6
BARSYDE ... Dandruff eradicator.	22/6	2/6
TAMMALITE ... For grey and faded hair.	22/6	2/6
LIQUID PERGOL ... To check excessive perspiration locally.	31/6	3/6
BICROLIUM ... For whitening the hands.	22/6	2/6
COCONOIDS ... For figure development.	31/6	3/6

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES ... For obesity.	36/- 58/6	4/- 6/6
SOFT PALERIUM ... For wrinkles.	45/-	5/-
LIQUID NAIL POLISH ... Brilliant and lasting.	10/-	1/-

Stocked by ALL Wholesale Houses.

COLONIAL DEPÔTS AND AGENCIES.

Australia: ALL WHOLESALESAERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON, Ltd., Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.
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A. L. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
South America: DEARBORN (South America) Ltd., Calle Páyon 2100, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

TRADE MARK



SPURWAY'S AMERICAN BAY RUM

Made with Industrial Spirit.
Manufactured from genuine
Oil of Bay.

It is of very delicate aroma,
the smell of the spirit being
completely covered.

It is of high spirit strength,
containing 80% of spirit, and
is a genuine drying and
stimulating lotion.

IN BULK—15/- per gallon.
2/- per pint.

BOTTLES—11/- per dozen.
Or in 3 doz. lots,
10/- per dozen.

In 4-oz. frosted bottles, artistically
finished.

Handsome show-cards sent
with each consignment.

WRITE FOR SAMPLE.

SPURWAY ET CIE, LTD.

89 Great Eastern Street,
LONDON :: :: E.C.2.

CANNES-GRASSE, RIVIERA.
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LEIPSIC NEW YORK
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Telegrams - "NEROLI, LONDON."
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Beautiful Showcards
sent with order.

SPECIAL OFFER!



30/- Parcel at List
Price Less 5% Window
Show Allowance and
2½% For Cash. Carriage Paid

VEN-YUSA CREAM 1/3 SCENTED	(M.R.P. 1/3)	@ 10/-
Ven-Yusa Cream 1/3 Unscented	(M.R.P. 1/3)	@ 10/-
Ven-Yusa Cream 1/3 Rose	(M.R.P. 1/3)	@ 10/-
Ven-Yusa Super-Creamed Soap 6d.	(M.R.P. 6d.)	@ 4/6
Ven-Yusa Shampoo Powder		
(7 3d. Shampoo Powders in packet) 1/6 size	(M.R.P. 1/6)	@ 13/6
Dozen ditto 3d. ,,	(M.R.P. 3d.)	@ 1/10

(Supplied in 6 dozen Cartons.)

Less 5% for Displaying Cards & additional 2½% for Cash.

☐ If desired the order can be booked on credit terms,
but in that case the cash discount is not allowed.

PROFIT ON INVESTMENT 62%
PROFIT ON TURNOVER 38%

PUFF BOWLS, PUFFS, Etc.

No. 660.

28/- doz.

LARGE VARIETY
OF DESIGNS.

Smaller size, 440,

20/- doz.



Alabaster Bowls

WITH KNOBS.

4 in. ... 2/6 each.

5 in. ... 3/3 each.

6 in. ... 4/- each.

Greek Key, 5/- each.

Assorted Colours.

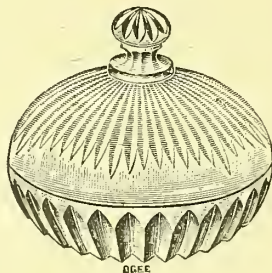
We can supply Alabaster
Bowls with Hand Painted
designs from 4/- upwards.

Wine Glass Puff Bowls

513. Complete with Puff as illustration,
3/- each.

512. With a cheaper Puff, 2/- each.

Pressed Cut Glass Bowls.



No. 6488 ... 9/- doz.

No. 945. Glass Puff Box 9/- doz.

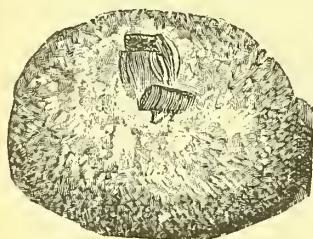
No. 428/11/7612 ... 6/6 each.

As illustration.

124/6. Similar, 57/- doz.
5/- each.124/5. Smaller, 51/- doz.
4/6 each.

SWANSDOWN PUFFS, ETC.

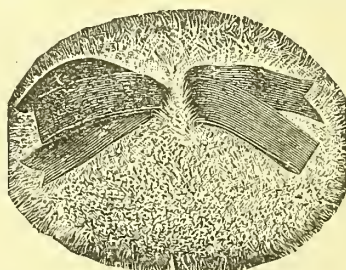
EMPRESS PUFF



With Ribbon.

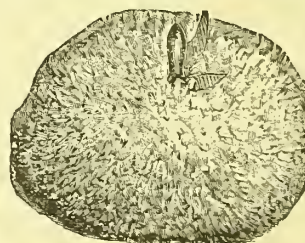
No. 0	...	...	5/- doz.
" 1	...	...	8/- "
" 2	...	...	11/6 "
" 3	...	...	15/6 "
" 4	...	...	19/6 "

BEST SWANSDOWN BATH PUFFS



4 in. each in special Box	18/- doz.
5 in. " "	33/- "
6 in. " "	51/- "
7 in. " "	72/- "

HANDLE SNOWBALL PUFF



No. 0 with Knib	...	5/9 doz.
" 1	...	9/9 "
" 2	...	12/6 "
" 3	...	15/- "
" 4	...	20/- "

OSBORNE, GARRETT & CO., LTD., 51-54, FRITH STREET,
SOHO, LONDON, W.1

Another great Bourjois Success.

Ashes of Violets

(BOURJOIS — PARIS)

To many people the rose is emblematic of all that is exquisite in perfume. These are the enthusiastic and delighted purchasers of *Ashes of Roses*. But there are equally as many lovers of the shy and enchanting little violet, and to these Bourjois' newest and latest series of Toilet Preparations, *Ashes of Violets*, will appeal with an irresistible attraction.

Ashes of Violets is going to vie in popularity with *Ashes of Roses*. A complete range of preparations is in course of preparation and those marked with an asterisk are now ready. Send your opening order now for this new Bourjois success.

Catalogue No.	Article.	Price Per Doz.	Price P.A.T.A.	Catalogue No.	Article.	Price Per Doz.	Price P.A.T.A.
4002	Bath Dusting Powder ..	44/-	5/6	5018*	Liquid Brilliantine ..	20/-	2/6
4003*	„ Crystals ..	36/-	4/6	5019*	Solid Brilliantine ..	20/-	2/6
4006*	„ „ ..	20/-	2/6	2532	Compact Powder in gilt case ..	16/-	2/-
5012*	Compact Powder ..	15/-	1/9	2533	Compact Powder in gilt case ..	30/-	3/9
5009*	Introductory Set ..	14/-	1/6	2534	Miniature Talcum Powder ..	2/-	-/3
5010*	Talcum Powder ..	20/-	2/6	2535	Sachets in Satin Envelope ..	12/-	1/6
5011*	Miniature Perfume ..	9/-	1/-	2536	Bath Tablets (1-doz. in a box) ..	36/-	4/6
5013*	Face Powder ..	24/-	3/-	2537	Cachous (in gilt box) ..	8/-	1/-
5014*	Perfume ..	40/-	5/-	2538	Poudre Talc ..	8/6	1/-
5015*	Lip Stick ..	12/-	1/6			Gross lots 8/-	
5016*	Savon (3 Tablets in a box) ..	36/-	4/6				
5017*	Vanishing Cream ..	20/-	2/6				

A. BOURJOIS ET CIE, LTD.

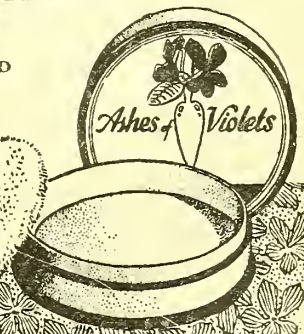
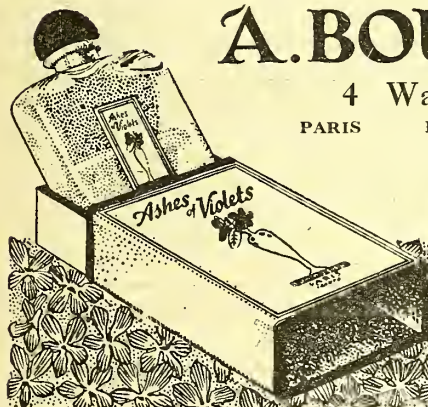
4 Water Lane, London, E.C.4

PARIS

NEW YORK

SYDNEY

NEW ZEALAND



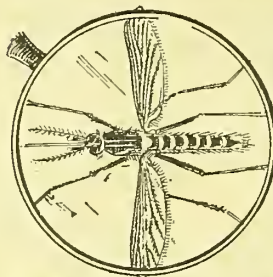
Please
get your supplies of
AMAMI
Shampoos from
PATA
WHOLESALE

*They allow
just the same Bonus*

10%

*on six dozen
sixpenny Shampoos*

AMAMI 4/10 Chenies St. London W.C.1.



Mosquitoes
Gnats, Midges,
ETC.

The line that has a
popular demand and
an increasing sale is

NADA Insect Bite Perfume

A Pleasant Antiseptic.
IN Dainty PHIALS,

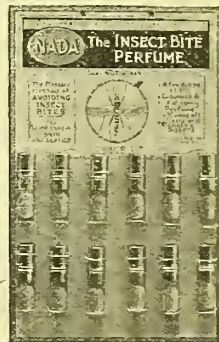
7/- per doz.

Francis Newbery & Sons

LIMITED

27-28 CHARTERHOUSE SQ.,
LONDON, E.C.1.

Branches at
CARDIFF and LIVERPOOL.



WISEMAN, MYERS & CO.

121a BUNHILL ROW, LONDON, E.C.1.

TOILET BRUSHES.

Tooth, Nail, Hair, Shaving, Clothes, &c.

COMBS.

Every description. Specialty for Bobbed and Shingled Hair.

MANICURE REQUISITES.

Orange Sticks, Emery Boards, Nail Files, &c.

PUFFS.

Fancy and Satin Top, Snowball.

ROUGE PADS. Also in Rubber Pouches, Silk, Jazz, Handkerchief, &c.

Samples and Prices on Application.

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

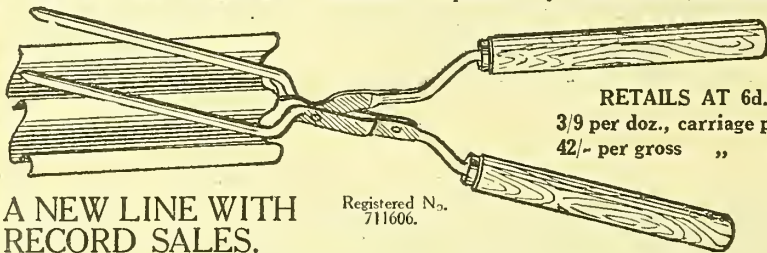
**BEST
BRITISH
BRUSHES**

Please write for full Particulars to—

75 Farringdon Road, E.C.1.

AN APPEAL

To the Chemist who has not yet handled our Wavers. 85% of our customers who have taken up this line have repeated. If you are in doubt, let us send you sample—you will order—and repeat.



A NEW LINE WITH
RECORD SALES.

Registered No.
711606.

RETAILS AT 6d.
3/9 per doz., carriage paid.
42/- per gross " "

THE LISTER HAIRWAVER FOR BOBBED HAIR.

STANDEN & PERKS

Gt. Lister Street,
BIRMINGHAM.

STOCKISTS OF THE
WAVERLEY COMBS.

"Specialty"

Otto

COLD CREAM

YOUR customers require Quality, Purity and Moderate Prices. If you stock goods that come under this category you automatically ensure yourself rapid and ever-increasing profits.

"Specialty" Otto Cold Cream is guaranteed for Quality and Purity, all the ingredients used in manufacture being carefully selected from the finest materials procurable.

"Specialty" Otto Cold Cream has an additional appeal to the public due to the attractive manner in which it is packed.

We will gladly send you samples and prices.



"SPECIALTY" OINTMENTS

All B.P. and unofficial ointments are made from the best ingredients by the most up-to-date machinery ensuring a smooth, high quality product. Sold in bulk or packed in attractive decorated tins and screw capped glass and opal jars. Send for Samples and Price Lists.

"SPECIALTY" DEPT.,

ANGLO-AMERICAN OIL CO., LTD.

Albert Street, Camden Town, London, N.W.1.

Telephones:

Hampstead 4046 and 4047.

Telegrams:

"Nufinjol, Norwest, London."

YOUR PHARMACY ADVERTISED AT OUR EXPENSE.

MIDGE BITES

SPECIAL OFFER RETAILING AT 1/-
WHOLESALE 8/- doz.

Trial dozen and samples post free 8/-

Bonus One dozen with every gross,
CARRIAGE PAID.

While the insects are biting keep
up your stock of
HUXLEY'S WITCH HAZEL JELLY
THE FAMOUS SPECIFIC AND ANTI-STING.

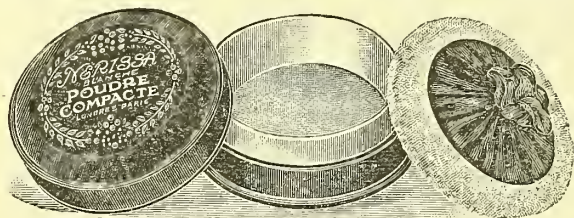
If you'll send us at once names and addresses of your lady
customers, we will promptly send them a sample and give your
name as local supplier. How's that? W.H.J. besides being
the most efficient anti-sting on the market is
AN ELEGANT TOILET PREPARATION

For **SOFTENING** the ARMS, HANDS & NECK

OTTO SCENTED, NON-GREASY, and MORE CONVENIENT
FOR LADIES' HANDBAGS THAN LOTIONS

Anglo American Pharmaceutical Co., Ltd. Dingwall Rd.
East Croydon.

Poudre Compacte



The best range of Solid Powders on the market.

All complete with Puff, in assorted perfect
tints. In attractive Show Boxes of 1 dozen.

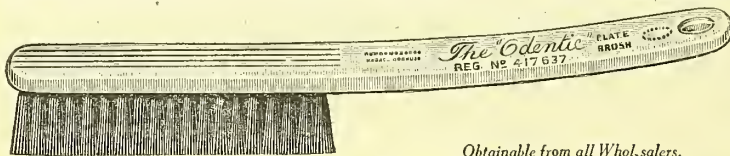
- | | | |
|--------|--|----------|
| F100. | "Thé Dansant," Nickel Plated Box | 6/- doz. |
| F101. | "Thé Dansant," " " " with
diminishing mirror | 7/6 " |
| F102. | "Secret Charm," Embossed Aluminium
Box, with diminishing mirror | 5/- " |
| F103. | "Golden Dawn," Imitation Gold Box, with
diminishing mirror | 7/6 " |
| F104. | "Damask Rose," Imitation Gold Box,
decorated in colours, with diminishing
mirror | 7/6 " |
| F1003. | "Nerissa," Attractive Card Boxes as illus-
trated, in handsome display outer | 5/- " |

Obtainable through all Wholesale Houses.

Perfect Powder. Freedom from breakage. Daintily presented.
An assortment that will meet the taste of every buyer and
bring repeat orders.

Sole
Manufacturers:

SOLPORT BROTHERS, LTD., 184/190, Goswell Road, E.C.1.



Obtainable from all Whol. salers.

"ODENTIC" PLATE BRUSH

(Reg. No. 417637)

For **ARTIFICIAL DENTURES**

Manufactured by—

W. R. SPEER & SON (Estd. over 100 years)

Tooth-Brush Makers,

215 DALSTON LANE, LONDON, E.8.



SHADEINE

For COLOURING GREY HAIR

This popular article is largely advertised
and stocked by all Wholesale Houses.
Trial size 8d. per doz. ... 6/-
1/4 size, per doz. ... 15/-
2/6 size, per doz. ... 24/-
3/9 size, per doz. ... 36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2.

The Evan Williams

ALWAYS IN GREAT DEMAND.

PRICE LIST ON APPLICATION.

The EVAN-WILLIAMS Co., Ltd., 14/15 Union St., W.1.

STAMPOO

DOUBLE
BRUSH

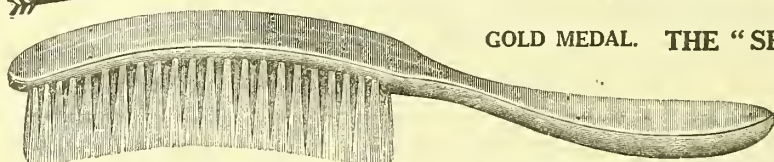
BIDWELLS' "GLORIA"



No. D.21.

FOR CLEANING BOTH SIDES OF THE TEETH.

PRICE:
24/- per doz.



HIGH CLASS

GOLD MEDAL. THE "SHINGLETT" HAIR BRUSH

PRICES: per doz. retail

Satinwood, Grey Bristle ... 48/- 6/6

Satinwood, White Bristle ... 66/- 9/-

Solid Ebony, White Bristle 72/- 10/-

CASTLE MILLS, AXMINSTER.

GREY HAIR PREPARATIONS

are in greater demand

The rapidly changing hair fashions of recent years have had the effect of focussing more attention than ever on the hair.

Profitable business has resulted in many lines. Of these Nuctone is one of the most prominent.

Nuctone offers to the man or woman whose hair has gone grey a perfectly safe and successful means of restoring the normal colour of the hair.

Nuctone is easy to apply and has a distinct tonic action on the hair.. After its use the hair can be shampooed, permanently waved and dressed in any style.

Meet the demand which the advertising is creating by keeping up your stocks of

Nuctone

for GREY HAIR

In Four Grades:

NUCTONE for dark and medium hair.

3/9 size 32/- doz., 6/6 size 52/- per doz.

NUCTONE ECLAIRE for fair & auburn hair.

3/9 size 32/- doz., 6/6 size 52/- per doz.

NUCTONE CONCENTRE for Gentlemen's hair, 6/6 size 52/- doz., 12/6 size 84/- per doz.

NUCTONE ECLAIRE CONCENTRE for Ladies and Gentlemen with fair hair who want a quicker result.

6/6 size 52/- doz., 12/6 size 84/- per doz.

Obtainable from your usual wholesalers or direct from—

QUELCH & GAMBLES, Ltd.
211/215 Blackfriars Rd., London, S.E.1

Manufactured by

STEWART, GOODALL & DUNLOP, LIMITED,
4 Dering Street London, W.1



Sales and more sales from Sorbo Sponges

PUT Sorbo Sponges in your window. This unique rubber-sponge, which never tears, never gets slimy, and is *improved* by soap, is a *sure* attraction.

Many thousands of satisfied users can endorse the words of the customer who writes:—

"They are super-sponges! Unless I had actually had experience I would never have believed it possible for a rubber sponge to have stood such wear for so long. I would not think of buying anything but Sorbos."

With our extensive publicity and their own splendid reputation to sell them for you, Sorbo Sponges mean quick turnover and liberal profits year in and year out.

Send for the handsome Sorbo Show-cards and window displays. Complete Trade Catalogue and Price List on application.

Sorbo sponge

THE MOST ABSORBENT RUBBER SPONGE

Retail prices from 1/1 to 8/3 each.

Some other quick-selling Sorbo Lines

Floating Bath Toys, Bath Mats, Complexion Gloves, Bath Straps, Insoles, Heel Elevators, Massage Pads.

Write for particulars.

SORBO RUBBER SPONGE PRODUCTS, LTD.

Sorbo Works, Woking, Surrey.

Telegrams: "Sorbo, Woking." Telephone: Woking 966 (2 lines)



LEICHNER

LONDON OFFICE:
27, Harcourt Street,
Marylebone, W.1.

PHONE: PADDINGTON 2649.

WIRES: "FETTPUDER-BAKER-LONDON,"

Write for NEW Price List and Special Terms for opening order.



Telegrams: "ADOLPH, BIRMINGHAM."

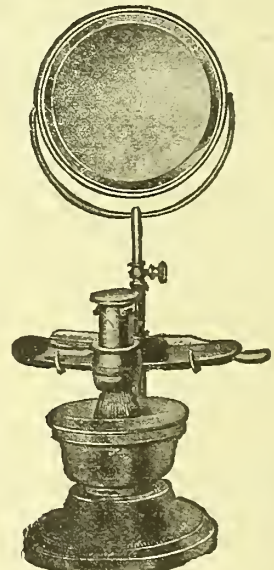
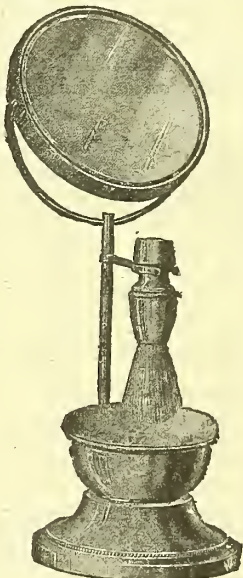
Telephone: NORTHERN 2102.

ADOLPH SCOTT, L^D. 24, 25, 26 Great Hampton St. BIRMINGHAM

LATEST DESIGNS
- IN -
SHAVING STANDS
- AND -
MIRRORS.

- ALSO -
LARGE SELECTION
- OF -
ELECTRO PLATE,
SILVER
- AND -
TORTOISESHELL
TOILET SETS
ETC.

ALWAYS IN STOCK.

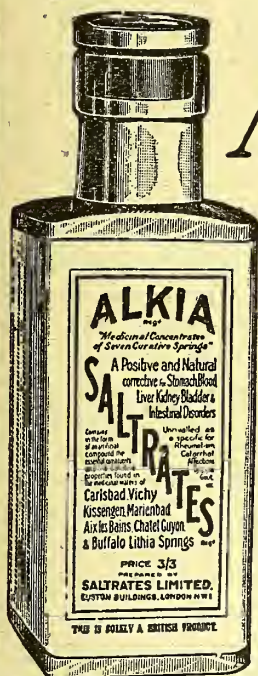


Send for Illustrated Catalogue of Silver, Electro-Plate and Leather Goods

Compounded UP TO A STANDARD

(The Highest Possible)

Never DOWN TO A PRICE



these lines are as near perfection in their respective fields as it is humanly possible to get them, regardless of cost or selling price. Your customer requires no persuasion after he has once given our preparations a trial. He then KNOWS they are just what he wants and is interested in no others. In other words—after you make the first sale these goods go on selling themselves.

Alkia Saltrates

The most efficient Saline on the market and the best value for the money. Pleasant tasting and always satisfies the user. Widely advertised for Rheumatism, Gout, Sciatica, or any Liver, Kidney, Stomach, Intestinal or Blood Disorders, Catarrhal Affections, etc.

Sells at 3/3 (P.A.T.A.).

Reudel Bath Saltrates

The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath—especially recommended for Corns and all Foot Troubles, Rheumatic Pains, etc.

Sells at 2/- and 3/3 (P.A.T.A.).

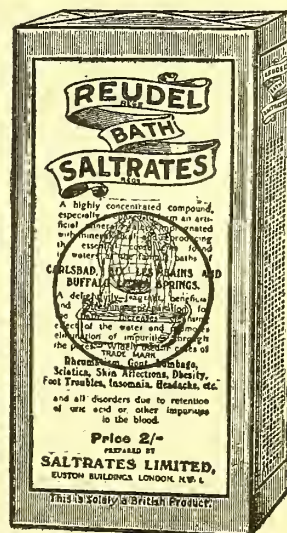
YOU CAN STOCK THESE RAPIDLY MOVING LINES ON GUARANTEED SALE TERMS

Carriage Paid in Free Cases in United Kingdom on orders for three dozen, which may be assorted.

Showcards of strong selling power sent free on request.

Write for our Special Terms for Window Display.

SALTRATES LIMITED, Euston Buildings, London, N.W.1.



H. GORDON (LONDON), Ltd.

8 CITY ROAD, FINSBURY SQUARE, E.C.1

"GORDO" Baby Pants & Ladies' Protective Knickers

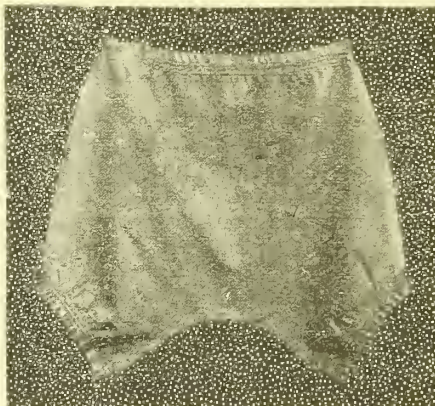
(REG.)

BABY PANTS

Each in
Transparent
Envelope.

Assorted Colours,
Blue, Pink, and
Transparent.

Sizes 0 to 4.



PROTECTIVE KNICKERS.

Each in Box.

In All Rubber, also Cotton
and Rubber combined.

Sizes 42, 44 and 46.

A large stock of popular lines
in

RUBBER APRONS,
PINAFORES, BIBS,
BATHING CAPS, etc.
at lowest Wholesale Prices.

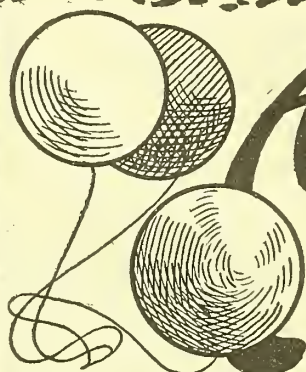
SURGICAL RUBBER GOODS.

Write for Catalogue.

Sole Agents for ANCIENS ETABLISSEMENTS THESSIER, Manufacturers of the Celebrated
FEVRE SELTZOGENES AND SYPHONS.

Telephone: Clerkenwell 1714 & 1715.

Telegrams: "GORDONOTUS, LONDON."



Advertising Balloons

A VERY EFFECTIVE
FORM OF ADVT.
SPECIAL DESIGNS
SUBMITTED.

SQUEAKERS,
DYING BOARDS,
SWANS, BIRDS,
ELEPHANTS, &c.

WHOLESALE & EXPORT
ENQUIRIES INVITED.
WE ARE ACTUAL MANUFACTURERS

JOSEPH HARRIS & COMPANY

RUBBER WORKS, BROADHEATH, ALTRINCHAM.



"Now that's all
right for the day."

NORVIC CRÊPE BANDAGE

Regd.

Lady customers will appreciate that it
"stays put" when adjusted. No slipping
down and "shucky"
stockings. Stock "flesh
colour," practically
invisible under silk stockings.

In 2, 2½, 3, 3½ and 4 in. widths. Supplied
in dainty packages making an excellent
counter display. Ask
for the Norvic show-
card for sample
bandage; free from your Wholesaler.

For Varicose Veins

GROUT & CO. LTD.

GREAT YARMOUTH.

Stocked by all leading Wholesalers.

Points of Superiority

PATENT NECK

The Ronoleke Patent neck ensures a perfectly water-tight bottle. The weakest part of the ordinary bottle is the Ronoleke's strength.

NO WIRING

to rust and corrode—just solid built up rubber of great strength. The patent neck has socket lugs embedded in the rubber.

NO WASHERS

to perish or renew. The screw top flange engages with the solid rubber platform—it cannot loosen when screwed.

THE CAPTIVE STOPPER.

The Captive Stopper now fitted to the Ronoleke makes it impossible to get lost, each one is chained to the bottle.

PROFIT RIGHT

A glance below will show you that the Ronoleke profits are good—just as good as the bottle itself, in fact.

STOCK RONOLEKE.
Send your order now. £5 orders and over less 5% plus a further 5% for prompt cash.



You must choose a 'Ronoleke' this year

The sales of the Ronoleke Hot Water Bottle are justifying all that we predicted—considerably more, in fact. The powerful advertising, backed up by the undeniable, proved superiority of the article, is reaping its reward. The sales have increased at an enormous rate. The demand for the popular size, 12" by 8", has been surprising. The Ronoleke is a bottle that you can take a pride in recommending to your customers. It brings credit to your business.

Sales-compelling Showmatter

We have produced some very fine showmatter that will certainly arrest the attention of passers by and create an interest in the Ronoleke that will ensure the desire to purchase. There are cards for your window, for your counter, and a very attractive transparency to fix on your door glass or window.

Increased Advertising

A sustained and scientific advertising campaign is again being placed for the Ronoleke Hot Water Bottle. Bold and striking advertisements will appear in all the leading magazines, etc., and will be seen by millions of potential customers. It is a duty to yourself to link up with this advertising.

To-day's Prices

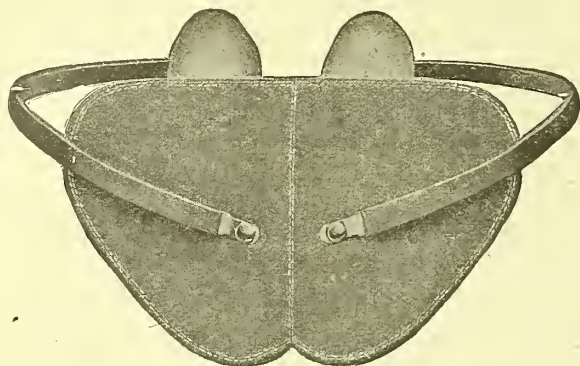
SUPER RED			DRAB	
Size	Wholesale	Retail	Wholesale	Retail
10×8	5/-	7/6	4/7	6/3
12×8	5/9	8/6	5/1	6/9
12×10	6/6	9/9	5/9	7/9

Obtainable from Wholesalers, etc., or direct from

CAMPBELL, ACHNACH & CO. LTD.

Wallace Street, Glasgow.

THE KINGSTON ABDOMINAL SUPPORTER



For General Weakness of the Abdominal Section
and an Efficient Support for the Lower Abdomen,
this appliance is invaluable.

In three qualities:

Basil and Chamois. Calf and Persian.
Calf and Lambskin.

R. H. HEWARD Co., Surgical Appliance Manufacturers, TWICKENHAM

CRÈPE VELPEAU BANDAGES AND ABDOMINAL BINDERS

In Original French Carts.



The Most Perfect and Durable Crêpe
Bandages that have ever been produced.
In two qualities only.

Demand CRÈPE VELPEAU.

ANYTHING IN THE SUNDRIES LINE RENE HEYMANS LTD.

including ENEMAS, WHIRLING SPRAYS, SOOTHER FITTINGS, DOUCHE
FITTINGS, POWDER and VANITY PUFFS, BRUSHES, COMBS, POWDER PUFF

:: :: :: MANUFACTURING ACCESSORIES, Etc., Etc. :: :: ::

Our Paris House is always on the look-out for Novelties suitable for
manufacturing purposes, and we shall be glad to obtain articles for clients.

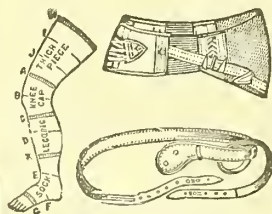
9, 10 DOMINGO STREET, LONDON, E.C.1

J. H. HAYWOOD, Ltd. CASTLE NOTTINGHAM GATE

SURGICAL APPLIANCE MANUFACTURERS.

SPECIALITIES FOR SUMMER:

Elastic Hosiery, with or without Seams, suitable for Summer wear.
Trusses, Suspenders, Ladies' & Gents' Belts made from porous materials.
Elastic and Leather Wristlets, Arm-pieces and Elbow Supports, for Cricket,
Tennis, Golf and Boating.
Goods for Toilet and Seaside trade, Washing Gloves, Bathing Caps, Water-
Wings, &c.
India-Rubber Appliances and Druggists' Sundries.





No. 2

Questions Customers ask you

WHAT MAKES IT BURSTPROOF?

Customers, with unhappy experiences in mind, find it difficult to understand why the "P.B.C." should differ so drastically from ordinary Hot Water Bottles. Dealers can point out that the "P.B.C." has hidden strength. There are three

outer covers of strong rubber —and inside these a tough cloth lining. No wonder these bottles can withstand a pressure of more than 2 tons! And, to cap all, the stopper is bound in place with copper wire as an extra precaution.

There is satisfaction in a
"P.B.C." Burstproof Bottle
that reflects on the Dealers who sell them.

THE HELP WE GIVE YOU

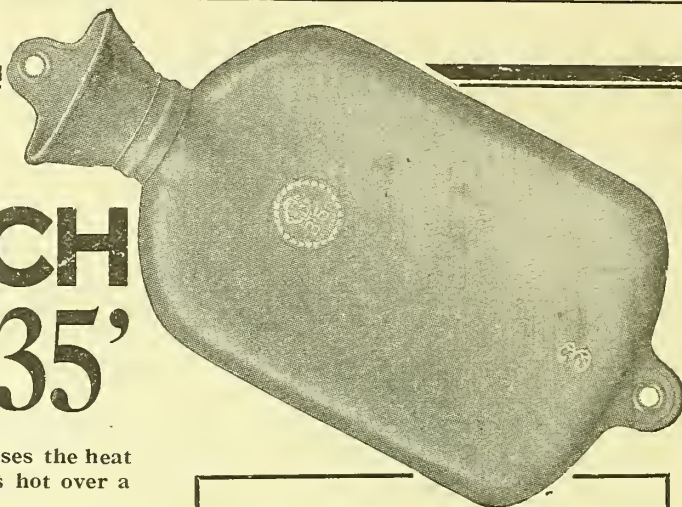
With your first order for "P.B.C." Bottles you will receive a novel window display that is a proved attention-getter. Do not forget to ask for this Sales Help when ordering.

P. B. COW & CO. LTD.
47 CHEAPSIDE, E.C.2

Telegrams : "PETER COW, CENT, LONDON."

Telephone : CITY 1431 (3 lines).

The GOODRICH HOT WATER '35' BOTTLE



HOLDS the water—securely; diffuses the heat—steadily and equably; remains hot over a long period.

The rubber of '35' is of the thickness which is proved scientifically correct for a hot water bottle, and is of a special quality that allows warmth to radiate steadily and lastingly. (A thickly made bottle absorbs heat to warm itself. A thinly made bottle, when filled, is too hot at first, and too soon becomes cold.)

The neck of '35' is specially strong, the stopper a perfect seal—rustless and easy to remove. The experience of nearly fifty years has produced the Goodrich '35'—the Ideal Hot Water Bottle.

The Goodrich '35' red rubber water bottle is moulded by hydraulic pressure, in one piece. There are no seams. The rubber is heavily reinforced where the strain comes most.

OTHER GOODRICH SPECIALITIES.

Fountain and Combination Douches, also various Rubber Sundries for the Surgical Trade

BRITISH GOODRICH RUBBER CO., LTD.

Registered Office, 50, PALL MALL, LONDON, S.W.1.
Factory - - - - - LEYLAND, LANCS.

London Receiving and Despatching Depot:

199, BUCKINGHAM PALACE ROAD, S.W.1.
LEEDS BRANCH: 35, Kirkstall Road.

Zeal's
CLINICAL
THERMOMETERS
are
BRITISH MADE
by
BRITISH LABOUR
from
BRITISH GLASS
and
GUARANTEED
PERMANENTLY ACCURATE

G. H. ZEAL, LTD. 75 & 77 St. John Street
— LONDON, E.C.1 —

"GEISHA"



OBTAINABLE FROM ALL WHOLESALE FACTORS.

H. C. STERN

12 Farringdon Avenue, LONDON, E.C.4

Telephone: Holborn 3140. Telegrams: Glastos, Lud, London

THE Lullaby

(Regd.)

FEEDING BOTTLE TEAT

(PATENT)

"VITAL" PROCESS HEAT-CURED RUBBER.

PRICE 4^D. EACH.

WITH LARGE DISCOUNT.

THE LULLABY
TEAT IS THE
STRONGEST TEAT
MADE.

IT WILL STAND
REPEATED STERILISATION.

BABIES LOVE IT,
FOR IT WON'T
PULL OFF.

PRICE 4^D. EACH.

WITH LARGE DISCOUNT

NEW DESIGN
WITH THICKENED
BALL TOP AND
EXTRA STRONG
GRIP.

PACKED IN DUST-
PROOF WRAPPER
IN ATTRACTIVE
COLOUR SHOW
BOX.

HAVE YOU HAD YOUR FREE SAMPLE?
WRITE FOR ONE and TEST ITS STRENGTH.

RELIANCE
COMPANY



RUBBER
LIMITED

212-213 UPPER THAMES STREET, LONDON, E.C.4

PERKEN, SON & CO., LTD.

Established 1852.

Contractors to H.M.
Government.

THE "MATER" CLINICAL

is on the
P.A.T.A.
LIST.

ALL
TYPES
OF
CLINICAL

AND OTHER
THERMOMETERS

Price List on Application.

94 HATTON GARDEN,
LONDON, E.C.1.

Telephone: 724 Holborn.

Telegrams: "Optimus, Smith, London."



BIGGER BUSINESS

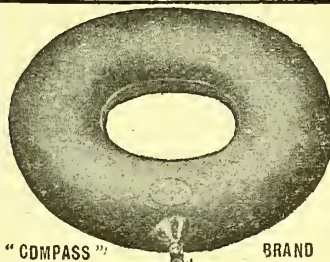
Dr. Scholl's Foot Comfort
Appliances and Specialities
are in ever increasing
demand. By displaying
them you will materially
increase your custom and
sales. "Scholl" goods show
a generous margin of profit



Dr. SCHOLL'S PED-O-KUBE
FOR THE FOOT BATH.

A refreshing antiseptic prepara-
tion for tender, hot and swollen
feet. Retail price 2/- per box
(One dozen cubes).

Write for Illustrated Catalogue.
The SCHOLL MFG. CO., Ltd.
1-4 Giltspur St., E.C.1.



"COMPASS" BRAND

MAKERS
GEO. MACLELLAN & CO. LD.
Glasgow Rubber Wks., Maryhill Glasgow.

London: 22 Newgate Street, E.C.1.
Sunderland 44 Borough Road.

Newcastle-on-Tyne: 3 & 5 Queen St.
Cardiff: 58 James Street.
Birmingham: 44 Summer Row.

One of our Whole-
sale Customers
recently received the
following:

"We want a 20-inch
cushion air-ring of a
particular make. . .
We have tried a great
many and like best the
'Compass' Trade Mark.
Will you scour the
country for us (or send
to Germany if necessary)
for a 20-inch Ring
Cushion with 'Compass'
Trade Mark as enclosed."

Hobson's Choice
From the usual
Wholesalers or
direct—
HOBSON,
TRIMBLE
& CO. LTD.
11 Union St.,
LEEDS.

FEET POWDERS

TINORI?

TO INCREASE YOUR REVENUE SELL

"TOINOCO" PAPER HANDKERCHIEFS

THE ORIGINAL BRAND.

The only Paper Handkerchief
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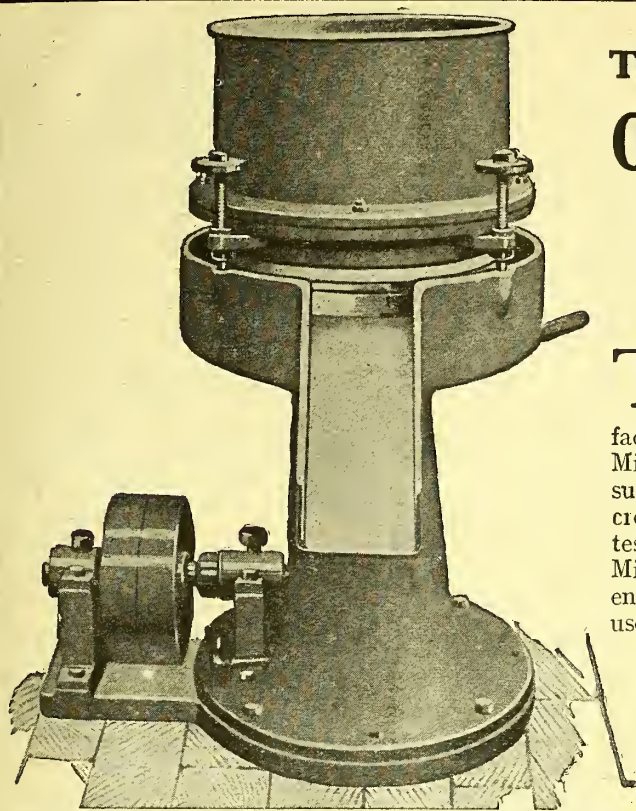
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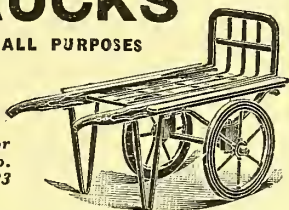
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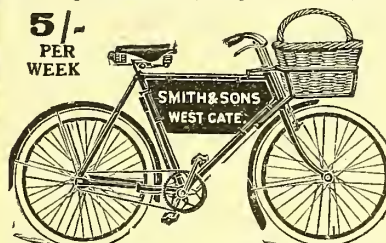
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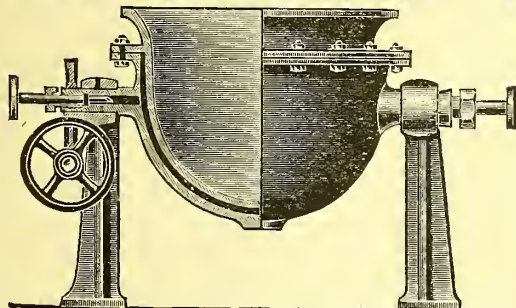
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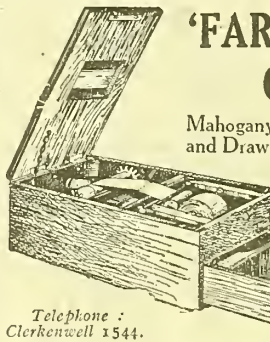
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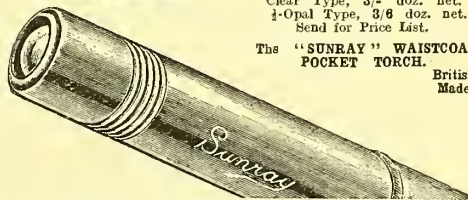
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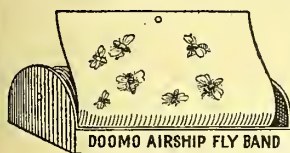


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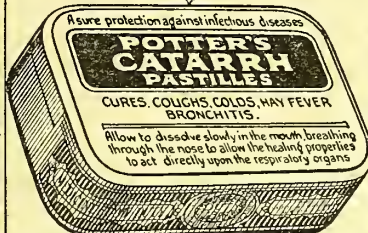
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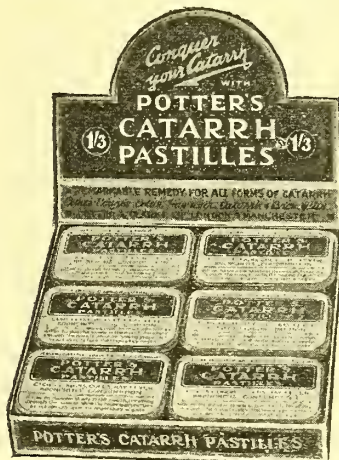
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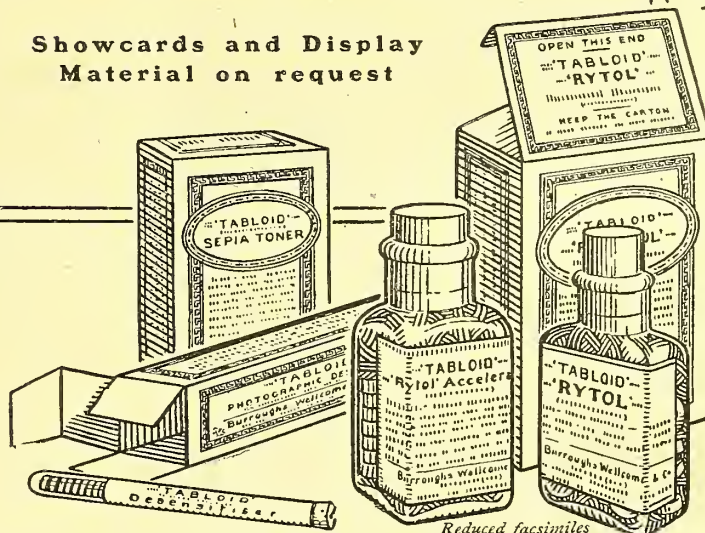
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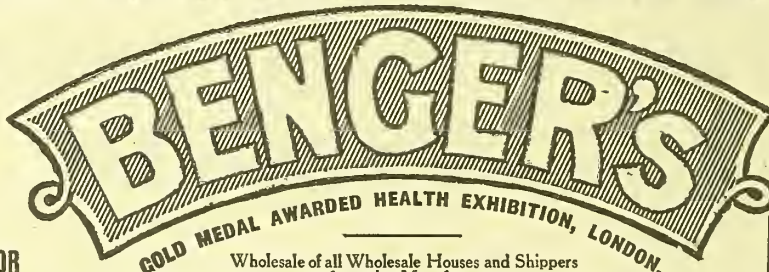
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Head Office: 42 CANNON STREET, LONDON, E.C.4

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Now on Sale

C. & D. Poisons Card No. 2

THE new edition of Poisons Card No. 2, containing an extended list of scheduled poisons and preparations containing poisons, is now ready. There has been some delay in producing it, as we desired to include in it the official abbreviations of pharmaceutical preparations recognised by the Poisons Labelling Order and other information needed to conform with the Order. In view of recent legislation we have specially studied the question of "preparations" of Part I poisons, this matter having assumed great importance now that medical practitioners are required to sign the Poisons Book or supply written orders for Part I poisons. The cards measure 10 in. by 12½ in., and are sold at 1s. each, post free. The terms for quantities are:—

3 cards, post free	s. d.
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100 cards, carriage paid	21 0
	60 0

New editions, at the same price, have already been published of Poisons Card No. 1 (containing the Poisons Schedule and sale regulations) and Poisons Card No. 4 (dealing specially with the Dangerous Drugs Acts and Regulations).

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Inquest

The South London coroner opened an inquiry, on August 17, concerning the death of Mr. Alfred Thomas, Ph.C., who was found dead at his house in Clapham on August 15. The widow deposed that her husband had complained of stomach trouble; he had three shops, and so far as she knew everything was straightforward. Mr. Thomas had been in the habit of taking for his stomach chlorodyne with two drops of hydrocyanic acid. He had never threatened to take his life. There had been no serious quarrel between them. Mr. E. F. Creed, King's College Hospital, who made a *post-mortem* examination, said that there were seven bruises and two small superficial wounds on the head. All might have been caused by direct violence, such as a blow, but, on the other hand, they might have been caused by falls against a hard substance. He found no evidence of disease in the stomach. Death was due to hydrocyanic acid taken in considerable quantity. None of the blows or bruises was sufficient to cause death. The coroner adjourned the inquest to August 25.

Meeting of Creditors

A meeting of the creditors of L. Saphier & Son, late of 58 St. Stephen's Road, Bow, E., manufacturing perfumers and druggists' sundriesmen, was held on August 17 at the London Bankruptcy Court before Mr. V. Armstrong, official receiver. It transpired that Albert Saphier had attended upon the official receiver and informed him that he started business when fifteen years of age, with a capital of £200. Until Christmas 1923 he was in a fair way of business and doing a large trade in proprietary articles. The manufacturers of these articles then found out that goods were being disposed of by stall-holders for less than the fixed retail price; and having ascertained that these goods had been obtained from him, they stopped supplies, with the result that his business began to decline. In November last "L. Saphier & Son, Ltd.," was formed with a nominal capital of £600, to take over the business, but he had now ceased to have any connection with the company. A few months after the formation of the company he was served with a bankruptcy notice, but pleaded infancy, and the receiving order was made against "L. Saphier & Son," excluding himself. His father was at present unable to conduct any business. He returned liabilities at £600, and attributed his failure to continual persecution by the Proprietary Articles Trade Association. The chairman remarked that it was a peculiar case, because, so far as he could see, the only partner in the firm was an infant, who could not be made bankrupt. A resolution was passed for Mr. P. S. Booth to administer the estate as trustee.

Sheffield

Mr. T. F. Burdekin, Firth Park, is offering several lines at competitive prices.

The first prize for the largest local sale of Erasmio shaving sticks has been awarded to Mr. J. E. Crowe, Grimesthorpe.

The Sheffield Gas Co. asks customers to demand the authority of any presumptive inspector calling, as several cases of theft have lately been reported.

Miscellaneous

CONTRACT.—The contract for the supply of medicinal tablets to Iraq has been placed with Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton.

RESOLUTION OF CONDOLENCE.—The council of the Liverpool Chemists' Association has passed a resolution of condolence with the widow of the late Mr. E. T. Pearson, who for many years reported on behalf of THE CHEMIST AND DRUGGIST and the "Daily Post" the meetings of the association, and "by his enlightened outlook and unfailing good nature had made many friends amongst the members."

Irish News

Dublin

Under a scheme now suggested by the Dublin Union Commissioners it is proposed to abolish the eleven dispensaries in Dublin and to attach them to the existing hospitals, thus saving a large share of their cost—£14,000 per annum.

The Government have decided to have a separate Medical Register for Ireland. This will disqualify for any public post in Great Britain any graduate of any medical school in the Free State except Trinity College, which has a special position. The Irish schools qualify about 150 medical men yearly, and Ireland can employ about twenty of them. Mr. Cosgrave, interviewed on the subject recently, said: "We have decided not to seek a continuance of the United Kingdom arrangement whereby the medical profession of Ireland, with certain representation, was controlled by the British General Medical Council. That an important profession within the State should have its centre of gravity and disciplinary headquarters in the capital of another country is felt to be so incompatible with our constitutional status that we must be prepared to face whatever minor and temporary disadvantages may accrue from the cessation of the arrangement." It is understood that only about half a dozen medical men in Dublin approve of the Government's decision. The Government say that they will not be diverted from the course upon which they have entered, and Mr. Kevin O'Higgins, the Minister for Home Affairs, told a deputation of doctors last week that they were only wasting their time in trying to alter it. Professors of medicine at University College, Galway, have drawn up a report favouring the institution of a separate Register.

SHOPS ACT, 1912.—The Kent County Council has made an order under Section 4 (4) of the Shops Act, 1912, exempting from the provisions of the section all shops in the Broadstairs and St. Peter's Urban District in which the retail trade or business of a chemist is carried on. Shops to which the order applies are accordingly exempted from the provisions of Section 4 of the Act in regard to closing for the weekly half-holiday.

SAFEGUARDING INDUSTRIES.—A committee appointed by the President of the Board of Trade in April to examine the claim of the gas mantle industry for protection under the Safeguarding of Industry Act, has reported in favour of the imposition of 6s. per gross on imported mantles. The Board of Trade, replying to the recent application of the domestic, illuminating and pressed ware sections of the British glass industry for inclusion under the Safeguarding of Industries Act, states that no *prima facie* case has been established for the reference of the matter to a committee.

THEFT OF HEROIN.—At Bath City Police Court, on August 10, Jeffrey C. Spurling was charged on remand with the theft of heroin, valued at 15s., from the shop of Pinch & Co., chemists, Cheap Street (C. & D., August 15, p. 238). Mr. Henry James Brown, chemist's assistant, said that on the day in question the defendant came into his shop and asked for a draught. Witness went to the side of the dispensing counter, and mixed a digestive draught, and defendant came near to where the poison chest was standing. The bottle which was missed contained heroin. Defendant: Is the stuff supposed to be kept under lock and key?—I am not sure upon that technical point, but there was a catch on the case. The hearing was adjourned to August 17, when the accused was bound over for two years not to enter a chemist's shop nor to take "drugs."

IN THE COURTS.—At Burnley Police Court, on August 12, Harry Huntington, Middlesbrough, and Frederick King, Leicester, were each fined 10s. on each of six counts, with costs, for failure to stamp the Insurance cards and Unemployment books of three men. It was stated that the defendants were makers of a chemical compound and of bath salts, which the men were engaged to sell.—At Leicester Police Court, on August 14, Frank E. Muddimer and George L. Walker, charged with stealing cameras and a sum of money from Young & Sons, chemists, between April 2 and 3, were placed on probation for two years.—At North London Police Court, on August 19, Ethel Speed, wife of a medical practitioner, was bound over on a charge of attempting to commit suicide by taking opium. The local police surgeon said that the appearance of the accused, when he examined her, was consistent with her confession of having taken opium "from two bottles."

Scottish News

Brevities

Mr. I. C. Sutherland, chemist and druggist, has acquired the business of the late Mr. A. H. Ross, chemist and druggist, 13 Strathmartine Road, Dundee.

At the annual shooting competition held in Edinburgh, recently, under the auspices of the Society of Miniature Rifle Clubs, Mr. D. W. Foster, chemist and druggist, Dunblane, was the runner-up with a score of 198 out of a possible 200.

Glasgow

Chemistry and its relation to pharmacology formed the subject of an instructive article by Mr. J. D. Fulton, M.A., B.Sc., A.I.C., in the "Glasgow Herald," August 14.

The single-handed competition for the Travellers' trophy of the Scottish Chemists' Bowling Association will take place on Wellcroft Green, Glasgow, on September 2. Any retail chemist in Scotland who is a member of a bowling club may take part. There will also be a single-handed competition for wholesalers at the same time and place. Winners of each section then play for the Championship of the Chemists of Scotland. Entries (fee 2s. 6d.) must be made not later than August 28 to Mr. J. T. Simpson, chemist and druggist, 268 Crown Street, Glasgow.

Colonial and Foreign News

MERCURY IN SUMATRA.—A report from Medan states that deposits of mercury have been discovered at Batanghari, on the west coast of Sumatra.

SPECIALITY LEGISLATION IN PORTO RICO.—Porto Rico must now be added to the lengthening list of countries which require the registration of all pharmaceutical specialities prior to their admission and sale. Preparations of this class must henceforth be registered with the Insular Department of Health, and the application to be submitted to the Commissioner of Health must contain the following particulars:—(1) Name of the preparation; (2) name of applicant, whether proprietor, importer or agent; (3) where manufactured; (4) form in which the product is marketed (solid, liquid, pills, etc.); (5) complete formula; (6) therapeutic properties; (7) text of all advertising matter supplied with the preparation. This application must be accompanied by two original packages of the product, and, once registered, the labels may be altered only with the consent of the Commissioner of Health. Registration will be refused: (1) if the preparation contains cocaine, eucaine α or β or their salts; (2) if it contains more alcohol than is strictly necessary as a solvent or to ensure preservation; (3) if it contains methyl alcohol; (4) if held out directly or indirectly as an abortifacient, or for any illegal or immoral purpose; (5) if the preparation contains heroin, or over 2 grains of opium, or its derivatives, in one ounce (this dose does not apply to liniments). The amount of opium, or of its derivatives, must be printed on the label in letters at least one inch high; (6) if the preparation is held out as possessing a specific effect against any malady, deformity or condition; (7) if it contains any drug or other substance which might render its use dangerous, even if the directions are carefully followed; (8) if the preparation is intended for children under one year of age, and contains any coal-tar derivative of which the dose may be deemed dangerous. In future no pharmaceutical specialities will be admitted by the Customs authorities unless they have been duly registered, but stocks actually in the island may be sold without registration up to October 24, 1925. It may be mentioned that these regulations also apply to pharmaceutical specialities distributed as samples or for trial purposes.

Legal Reports

Insufficient Labelling.—At Middlesbrough Police Court, recently, Norman E. Nelson, Borough Road, described as a chemist and druggist, was summoned for having sold a bottle of lysol which was not properly labelled. It was stated by the chief constable that the defendant, when spoken to about the matter, pleaded ignorance of the provisions of the Acts. When he purchased the fluid he overlooked putting additional labels on the bottles. A fine of 20s., including costs, was imposed.

A Chemist's Mistake.—At Birmingham Police Court, on August 14, Mr. Joseph Foster Taylor, chemist and druggist, Waterloo Road, South Yardley, was summoned for having sold heavy carbonate of magnesia not of the nature, substance and quality demanded by the purchaser. Mr. Taylor explained that he made a mistake by selling magnesium carbonate instead of calcined magnesia: he thought the label referred to calcined magnesia. The Bench agreed that there had been carelessness, but no intention to defraud, and fined the defendant 20s.

A Crowd on the Pavement.—At West London Police Court, on August 18, Mr. Abraham Harris, managing director of Eccles & Co., chemists, Pall Mall, Manchester, was summoned for causing an obstruction at Uxbridge Road, W.12, on July 20. Mr. James Balfour, manager of a chemist's shop at 176 Uxbridge Road, was summoned for aiding and abetting. Neither of the defendants appeared, but both sent letters in which they admitted a technical offence. A police sergeant stated that on the date mentioned a crowd of between sixty and eighty people gathered on the pavement, completely obstructing it. The crowd had assembled to watch a demonstration in the window of the shop by a masked woman, and leaflets were distributed advertising a hair food. The Magistrate: The defendants suggest that you caused the obstruction by staying at the shop so long. Witness: I was there half an hour taking particulars. The defendants were fined 5s. each.

Defective Scales.—At Margate, on August 12, Mr. Archibald John Gray, chemist and druggist, lately in business at 110 High Street, was summoned for having sold through his agent, Mr. J. L. Collins, a bottle of medicine deficient in quinine sulphate to the extent of 35 per cent. on a prescription handed in for preparation. An inspector under the Sale of Food and Drugs Acts stated in evidence that on receiving the certificate from the analyst he went to the shop, and told Mr. Collins that the sample had come out wrong. The assistant said he could not account for it at all, and did not know whether it was the fault of the scales. The witness then went behind the counter, and, after examining the scales, found that they were very defective. The pointer on the balance had been broken and soldered, and a part of the scales was loose. Mr. Gray called at his office and said that he could not account for the prescription coming out wrong, stating that he had perfect confidence in his assistant. William John Taylor, inspector of weights and measures, said that he went to the shop and examined the scales, and found them in a very bad condition. A part was loose, and the balance itself was considerably out. It took $1\frac{1}{2}$ gr. to balance it, and an additional $\frac{1}{2}$ gr. to move it. He condemned the scales. He had not examined them since last year. A letter from the defendant was read explaining that he was unable to attend the Court owing to ill health. The scales were bought from his predecessor. The writer had been in business twenty years without having a complaint from an inspector under the Acts. A fine of £5, with £2 10s. costs, was imposed.

THE MOTE AND THE BEAM.—Regent Street, London, W.1, according to an interview with an anonymous chemist, appearing in the "Daily Mail" of August 17, is becoming known as "eye street," on account of the quantity of dust and dirt incidental to the rebuilding operations now in progress. It may be suggested, however, that the chief concern of those who have to use the street at present is to dodge falling particles weighing from a ton upwards.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

CYNTHIA WARREN, LTD. (P.C.).—Capital £2,000. Objects: To adopt an agreement with R. G. Fowell, and to carry on the business of manufacturers and sellers of the face preparations referred to therein. R.O.: 20 Old Bond Street, London, W.

H. N. DAVIDGE, LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of a pharmaceutical chemist carried on by H. N. Davidge at the Central Pharmacy, 11 Shaftesbury Avenue, London, W.1. H. N. Davidge is permanent governing director subject to holding half the issued share capital, with £1,000 per annum as remuneration.

J. W. BRACEWELL & Co., LTD. (P.C.).—Capital £5,000. Objects: To acquire all or part of the undertaking and assets of the business of a chemical manufacturer and manufacturing chemist carried on by J. W. Bracewell at Orchard Hill, Railway Street, Ramsbottom, and all or part of the liabilities thereof. The directors are: R. Crompton, jun., and J. W. Bracewell. R.O.: Orchard Mill, Railway Street, Ramsbottom.

NEO-CHEMICALS, LTD. (P.C.).—Capital £1,000. Objects: To acquire from P. E. De Rees the right (whether limited or not) for the sale and distribution of a chemical preparation known as "Phyllosan," to deal in chemical or other preparations, as agents, factors, brokers, distributors or vendors, to import, export and manufacture such preparations, etc. The first directors are: P. E. De Rees, C. A. Mason and Paul Cardineaux. R.O.: 7 Chapel Street, Holborn, London, W.C.1.

H.P. SAUCE, LTD. (P.C.).—Capital £600,000. Objects: To acquire the businesses of brewers and manufacturers of and dealers in vinegar and sauces belonging to the Midland Vinegar Co., Ltd., and carried on at Birmingham and elsewhere; to take over all or part of the assets and liabilities of the said businesses; to adopt an agreement with the British Shareholders' Trust, Ltd.; to carry on in Great Britain or elsewhere (both directly and by means of subsidiary companies) the business of manufacturers and factors of and dealers in vinegars, sauces, condiments, pickles, sauces and culinary medicinal, nutritive and other products, and preparations of all kinds, wholesale and retail drysalts, grocers, druggists, etc. The directors are: L. C. Docker, J.P., Sir John Malcolm Fraser, Bart., G.B.E., P. J. H. Hannon, M.P., C. H. Smith, T. F. J. Tranton, and C. Owen.

RENNACIA CASEIN, LTD.—At a meeting, held on July 23, it was resolved that this company be wound up voluntarily. Mr. E. V. Amsdon, 22 Walbrook, London, E.C.4, was appointed liquidator.

PERMOWAVE, LTD.—A meeting of creditors was held on August 13, when a statement of affairs was presented by Mr. H. B. C. Baldwin, Brighton, liquidator in the voluntary liquidation of the company. The statement of affairs presented disclosed liabilities £737 10s. 8d. (£643 18s. 2d. due to the trade); assets totalled £63 13s. 6d., from which had to be deducted £34 2s. 4d. for preferential claims, leaving net assets of £29 11s. The creditors appointed Mr. H. W. McLeod to act as joint liquidator with Mr. Baldwin.

B. LAPORTE, LTD.—The net profit for the year ended June 30 amounted to £17,716 (against £18,852 in 1923-24). It is proposed to write £1,000 off goodwill (the same), to transfer £500 to taxes suspense account (against £2,000), and to pay a dividend on the ordinary shares of 11 per cent. (the same), the "carry-forward" being virtually unaltered at £9,566. The sum of £1,500 having been placed from share premium account to reserve fund, in addition to the usual transfer from profit and loss (£1,256)—making the reserve fund £17,977—it is not proposed to make a further allocation to reserve this year (against £2,000 in the preceding year). In anticipation of further expansion of the business, it is proposed to increase the nominal capital by the creation of 50,000 additional $7\frac{1}{2}$ per cent. "B" preference shares of £1 each.

Denaturants for Toilet Preparations

By obtaining a permit from the Excise authorities, industrial methylated spirit may be used instead of rectified for the manufacture of toilet preparations; but in no circumstances will a permit be granted for the use of the spirit in manufacturing a perfume, or any preparation that could be classed as such. In granting the permit the Excise authorities demand that the spirit shall not be made potable in any way, but that it shall be denatured to such an extent that the possibility of any person trying to make the finished formula drinkable will be remote. Owing to the heavy duty upon rectified spirit, it is much more difficult to obtain sanction for industrial spirit formulas than in pre-war days. Industrial spirit is only allowed for storage, without the addition of denaturants, under the supervision of a responsible person; but when any addition is made it must contain the authorised denaturants. The Excise authorities do not advise the claimant of what the denaturants must be; and as this means a great loss of time it is necessary that all formulas submitted should be capable of satisfying the first critical examination. As they stand, the following formulas will be found suitable for a keenly competitive trade; but some adjustment will no doubt be necessary to meet individual tastes. It is advisable to number the formulas and type them in English.

EXTRACT OF "HONEY AND FLOWERS"

Oil of orange (sweet)	10 oz.
Oil of lemon	5 oz.
Oil of bergamot	2 oz.
Oil of cloves	$\frac{1}{2}$ oz.
Oil of lavender (French)	1 $\frac{1}{2}$ oz.
Geraniol (palmarosa)	1 oz.
Coumarin	$\frac{1}{2}$ oz.
Musk (synthetic)	$\frac{1}{4}$ oz.
Castor oil	2 $\frac{1}{2}$ pints
Colouring	q.s.
Industrial spirit to	5 gallons

Some doubt seems to exist as to whether the Excise will allow this formula to be prepared with industrial spirit; if sufficiently denatured permission will be granted. Castor oil was accepted as the denaturant; it is also most suitable, as one part of the above is added to an equal part of peach kernel or mineral oils, or to a mixture of both, and this must be stated when submitting the formula. For those who wish for a suspicion of the "honey odour" one or two drachms of phenyl acetic ether will be found sufficient to impart it. It is to be noted that the odour will only develop after a week, so it is necessary to avoid adding more. If preference is shown for different odours it may be stated in the formula: "Other odours as required, not to exceed — ounces to 5 gallons." Otherwise each odour will have to be submitted; and no alteration is allowed without first submitting as a new formula. Liquid soap shampoos, such as emulsified coconut oil, pine tar, olive, almond or American nut oils, will be readily accepted.

Dry or spirit shampoos are termed "dry" because the lather is obtained by friction and disappears without being washed away; the quick evaporation of the spirit is also supposed to dry the hair sufficiently without the use of a towel. But practice differs from theory in this case, as most "dry shampoos" contain a proportion of soap; for use for ladies' hair, however, soap must not enter the formula. For general purposes the following has found favour with the hairdressers; the lather is excellent and lasting; further, it is cheaply made.

DRY SHAMPOO

Carbonate of potash (commercial)	8 oz.
Borax	4 oz.
Liquid ammonia, 0.880	3 oz.
Saponin	$\frac{1}{2}$ oz.
* Emuls. coconut shampoo	40 oz.
Synthetic violet	1 $\frac{1}{2}$ oz.
Industrial spirit	2 $\frac{3}{4}$ gallons
Water	2 $\frac{1}{4}$ gallons

Other odours as required, not to exceed 5 oz. to 5 gallons.

* The formula for the liquid soap will have to be submitted.

For violet, colour green; lavender, yellow; eau de quinine, red. All the ingredients, except the perfume, can be classed as denaturants; but should the liquid soap be reduced to half the above quantity the saponin would have to be increased to 1 oz. This preparation is sometimes required with a cologne odour; in that case no added colouring would be required. The saponin will impart a tint, therefore quinine hydrochloride could take its place; even without the liquid soap the quinine was accepted with 1 oz. to the 5 gallons. The Government analysts make due allowance for chemical reactions. The ammonia (0.880) could be increased instead, but it is important that the smell be not overpowering. As it stands this formula is refreshing in a heated saloon, and has met with widespread approval.

FRICTION LOTION (WITH GLYCERIN)

Glycerin	8 oz.
Quinine hydrochloride	2 oz.
Saponin	$\frac{1}{2}$ oz.
Oil of lavender	$\frac{1}{2}$ oz.
Oil of bergamot	$\frac{1}{2}$ oz.
Geraniol (palmarosa)	2 drachms
Musk (synthetic)	$\frac{1}{2}$ drachm
Industrial spirit	$\frac{3}{4}$ gallons
Water	2 gallons

Other odours as required, not to exceed 5 oz. to 5 gallons.

This formula also is required with a variety of odours and colours. The above has a tint caused by the saponin, but is almost colourless; dry extract of quassia, 1 oz., saponin, 2 drachms, can replace the quinine and the colour be blended accordingly.

EAU DE QUININE

This must not approach a perfumed tincture of quinine; without another denaturant it would be classed as such.

Quinine hydrochloride	2 oz.
Saponin	2 drachms
Oil of lavender	$\frac{1}{2}$ oz.
Geraniol (palmarosa)	2 oz.
Cologne oil	$\frac{1}{2}$ oz.
* Cantharidin	2 $\frac{1}{2}$ grains
* Chloroform	2 drachms
Industrial spirit	2 $\frac{1}{2}$ gallons
Water	2 $\frac{1}{2}$ gallons

One operation.

* An industrial tincture of cantharidin is not allowed for storage; the formula must be compounded in one operation, therefore chloroform is included for dissolving the cantharidin before adding to the bulk.

As most reds are too brilliant, or give a violet tint, it will be found that the yellowish-brown given by dry extract of quassia is admirable for blending the distinctive red of this preparation; $\frac{1}{2}$ oz. is sufficient for the purpose, and distinguishes the formula still further from a perfumed tincture. (No standardised preparations are allowed to be stored made with industrial spirit, except in cases in which permission has already been granted to the trade; where intended for toilet preparations sanction must be again obtained.) Eau de violette, eau de toilette, eau de Portugal and Lotion Vegetale are similar to quinine without cantharidin. They also can be manufactured with industrial spirit.

BAY RUM

This needs little comment, as this formula has been published many times; but as the odour of industrial spirit is difficult to cover, and also for the sake of adding to the variations, the following is given:—

Oil of bay, terpeneless	5 oz.
Oil of pimento, terpeneless	2 drachms
Oil of orange (sweet)	1 $\frac{1}{2}$ drachm
Amyl acetate	1 $\frac{1}{2}$ drachm
Acetic ether	1 $\frac{1}{2}$ drachm
Chloroform (methylated)	$\frac{1}{2}$ oz.
Ether (methylated)	$\frac{1}{2}$ oz.
Methyl iso-eugenol	$\frac{1}{2}$ oz.
Dry extract of quassia	1 oz.
Saponin	2 drachms
Industrial spirit	3 gallons
Water	2 gallons

It would take 1 oz. of quinine to replace the 2 drachms of saponin.

In many good bay rums, methyl eugenol is often used; by using methyl iso-eugenol a new and refreshing "tone" is given; it also helps as a "cover" for the spirit, but the addition of the chloroform and ether is a better one. Much depends, however, upon the source of supply of the spirit. In many bay rums a quantity of over-proof rum is included; obviously it would be impossible to include it in any formula made with industrial spirit.

HAIR CREAM

Tragacanth, powdered	...	...	10 oz.
Glycerin	...	...	3½ lb.
Formalin	...	...	1 oz.
Cologne oil	...	...	2½ oz.
Quinine hydrochloride	...	...	½ oz.
Industrial spirit	...	...	½ gallon
Water to...	...	...	5 gallons

It might seem that a tragacanth mucilage would be a sufficient denaturant, but it is not so nowadays. Formalin is not sufficient for denaturing this preparation, but on submitting again was allowed to remain in for its hair-growing property—thus: "Tonique Cream for the Hair." The formalin, however, combined with the spirit, serves to preserve this cream indefinitely. The sweetening effect of the glycerin made ½ oz. of quinine hydrochloride necessary. Without glycerin:—

Tragacanth, powdered	...	...	8 oz.
Formalin	...	...	1 oz.
Cologne oil	...	...	2½ oz.
Quinine hydrochloride	...	...	2 drachms
Industrial spirit	...	...	3 pints
Water to...	...	...	5 gallons

By using essential oils for the cologne odour an opaque cream results. By macerating lump gum and using synthetics or terpenes oils the "crystal" cream may be obtained.

Hair tonics present a great variety of formulas, so only a few are given as a guide. The following is for general purposes:—

HAIR TONIC

Cantharidin	...	...	2½ grains
Chloroform	...	...	2 drachms
Salicylic acid	...	...	2½ oz.
Formalin	...	...	½ oz.
Glycerin	...	...	1½ oz.
Quinine hydrochloride	...	...	1 oz.
Industrial spirit	...	...	2½ gallons
Water	...	...	2½ gallons

Salicylic acid is to be considered as a denaturant. Quinine hydrochloride was added for a denaturant, not for its supposed virtues as a hair-grower. If quassia and saponin are used, the quinine need not be added; saponin will help to create a little lather which is beneficial to the scalp as a friction lotion; equal parts (or nearly so) of spirit and water have also the same power; glycerin in traces prevents the hair from being left in a dry condition. A formula for Erasmus Wilson's wash which contains an appreciable amount of ammonia (0.880) will need no other denaturant.

SCURF LOTION

Cantharidin	...	...	2½ grains
Chloroform	...	...	2 drachms
Beta-naphthol	...	...	2½ oz.
Salicylic acid	...	...	1½ oz.
Borax	...	...	8 oz.
Saponin	...	...	2 drachms
Quinine hydrochloride	...	...	2 drachms
Glycerin	...	...	1½ oz.
Industrial spirit	...	...	2½ gallons
Water	...	...	2½ gallons

This needed the addition of the quinine and saponin before acceptance, but note the small quantity.

JABORANDI HAIR WASH

Fluid extract of jaborandi (aqueous)	...	...	2 pints
Cantharidin	...	...	2½ grains
Chloroform (methylated)	...	...	2 drachms
Saponin	...	...	2 drachms
Dry extract of quassia	...	...	1 oz.
Industrial spirit	...	...	2½ gallons
Water	...	...	2½ gallons

One operation.

An extract must be particularised as fluid, dry or solid; if fluid, whether aqueous or alcoholic, and if alcoholic must be made with duty-paid spirit. The maceration of jaborandi leaves with industrial spirit is therefore forbidden, although that would be a sufficient denaturant in storage. Quinine could be used, but quassia and saponin give a colour which is easily adjusted with caramel colouring; the latter should be an artificial one, as burnt sugar is often the cause of this solution depositing again after filtration.

SULPHUR HAIR TONIC

Sulphur (precipitated)	...	...	1 lb.
Cantharidin	...	...	2½ grains
Chloroform	...	...	2 drachms
Salicylic acid	...	...	2½ oz.
Quinine hydrochloride	...	...	½ oz.
Industrial spirit	...	...	2 gallons
Water	...	...	3 gallons

The sulphur was not sufficient as a denaturant; salicylic acid and quinine had to be added before acceptance.

ASTRINGENT HAIR TONIC

Zinc sulphate	...	...	4 oz.
Cantharidin	...	...	2½ grains
Chloroform	...	...	2 drachms
Dry extract of quassia	...	...	½ oz.
Saponin	...	...	2 drachms
Glycerin	...	...	3 oz.
Industrial spirit	...	...	2½ gallons
Water	...	...	2½ gallons

Zinc sulphate was not accepted alone, but half the usual quantity of quassia was sufficient.

BRILLIANTINES (SEPARABLE)

Mineral (or peach kernel) oil	...	...	2 pints
Industrial spirit	...	...	9½ oz.
Castor oil	...	...	½ oz.
Synthetic violet	...	...	½ oz.

Other odours as required.

When a spirit solution is intended to be added to oils 5 per cent. of castor oil is sufficient if added to the spirit before storage. As in "Honey Flowers," it should be pointed out that one operation is impossible in this case.

TONIC FIXATIVES (AMERICAN SPIRIT BRILLIANTINES)

Solutions of at least 12½ per cent. of castor oil in industrial spirit, suitably perfumed. It is important that the finest castor oil should be used, otherwise an objectionable odour is developed after two months.

ANTISEPTIC SPRAYS (FOR AN AFTER-SHAVE LOTION)

In submitting formulas of this nature avoid any suggestion of a perfume, such as "Cologne Spray." Any such suggestion means a perfumed spirit, which is not sanctioned for industrial formulas.

Glycerin	...	...	1 oz.
Boric acid	...	...	½ oz.
Menthol	...	...	2½ grains
Quinine hydrochloride	...	...	12 grains
Saponin	...	...	3 grains
Cologne oil	...	...	1 drachm
Industrial spirit	...	...	11 oz.
Water	...	...	9 oz.

Although boric acid and menthol are classed as denaturants, the addition of quinine and saponin is necessary because of the greater proportion of spirit.

MENTHOL AFTER-SHAVE

Tragacanth, powdered	...	...	2 (5) oz.
Formalin	...	...	2 (4) drachms
Menthol	...	...	2 (1) oz.
Cologne oil	...	...	2½ oz.
Red colouring	...	...	q. s.
Industrial spirit	...	...	3 (2) pints
Water	...	...	5 gallons.

This is similar to hair cream, alternate quantities being given for a cheaper preparation; but hairdressers like the "bite" of menthol—the formalin helps it.

GLYCERIN AND HONEY JELLY

Agar-agar	...	...	...	...	1 1/2 oz.
Water	...	...	...	...	12 oz.
Glycerin	...	...	...	...	5 oz.
Boric acid	...	...	...	...	2 drachms
Thymol	...	...	...	...	1 1/2 grains
Industrial spirit	for	diffusing	the	perfume	1/2 oz.

Thymol and boric acid acted as denaturants, as well as preservatives.

TOILET VINEGAR

Oil of lavender	...	...	...	...	2 drachms
Oil of geranium	...	...	...	...	1 drachm
Oil of rosemary	...	...	...	...	1/2 drachm
Oil of cloves	...	...	...	...	1/2 drachm
Oil of bergamot	...	...	...	...	1 drachm
Oil of peppermint	...	...	...	...	1/2 drachm
Menthol	...	...	...	...	15 grains
Acetic ether	...	...	...	...	2 drachms
Glacial acetic acid	...	...	...	...	9 oz.
Industrial spirit	...	...	...	...	3 pints
Water	...	...	...	...	1 1/2 pints
Dry extract of quassia	...	...	...	...	1 drachm
Saponin	...	...	...	...	10 grains

Although the quantity of glacial acetic acid would be sufficient to prevent any person drinking the solution, this was classed as a perfumed vinegar; hence the addition of quassia and saponin. The denaturants, however, helped to give a natural tint to the vinegar, which should not be dark.

VANISHING CREAMS

Permission will be granted for the use of industrial spirit for obtaining the "sheen"; the cream itself would be a denaturant, the formula for which would have to be submitted.

MILK OF ROSES, ETC.

Most specialties of this nature contain vegetable oils and soap, which act as denaturants. As a vehicle for spraying the colours and perfumes of powders, industrial spirit could be used if stated as "one operation."

ALCOHOLIC SMELLING SALTS

25 per cent. of ammonia (0.880) is the usual amount for these; this quantity of ammonia is sufficient even for storage before adding to the powder.

HAIR DYES

Those formulas containing spirit will be readily accepted; depilatories speak for themselves.

Many other denaturants will suggest themselves, but very good results can be obtained from the formulas given above by those who know how to handle industrial spirit. Some spirits are more difficult to cover than others; it depends upon the plant used by the distillers.—C. DOUBLEDAY.

Royal Commission on National Health Insurance

THE following is an excerpt from the official proof (2s. 3d.) of the evidence submitted to the Royal Commission on National Health Insurance, on July 2, by representatives of the Society of Apothecaries and of the Association of Certificated Dispensers. The same publication comprises evidence given on behalf of the British Social Hygiene Council, the public health committee of the London County Council, and other bodies.

21,222. (*Sir Andrew Duncan*): We have read the statement which you have submitted to us. The substance of it is that you desire that those persons who hold a certificate of your Society as dispensers, and who have in addition had three years' practical experience, should be recognised as qualified to dispense and supply medicines to insured persons under the Insurance Acts. Is this so?—(*Dr. Branchley*): That is exactly what we desire. . . .

21,224. You are thoroughly satisfied, are you, that the examination of your Society is an adequate test of the ability to dispense medicines accurately and successfully?—Yes, we are quite satisfied on that point.

21,225. But you would add three years of practical experience as an additional qualification for Insurance Act pur-

poses?—Yes. We think that there is no examination test devised that can guarantee the integrity and sense of responsibility of the individual, and that the three years is a valuable addition to the qualification. . . .

21,223. Have you at any time previously endeavoured to obtain an amendment of the Act in the direction you desire, and, if so, can you tell us for what reasons your efforts were not successful?—Yes. In 1913 there was a Departmental Committee appointed to inquire into and report whether, having regard to the interests of insured persons in obtaining an efficient supply of drugs and medicines and appliances and to the conditions under which those articles were supplied before the passing of the National Insurance Act, 1911, any alteration was necessary in the conditions laid down by section 15 (5) (b) of that Act in respect of the matter. Evidence was given before this Committee on behalf of the Society and also by the then secretary of the Association of Certificated Dispensers. Paragraph 37 of the Committee's report includes the following: 'The Committee are not satisfied that the standard of training and attainments required for a certificate of an apothecary's assistant or for the post of Army dispenser is at present sufficient in itself to qualify for dispensing for insured people without direct supervision.

... Another recommendation at the end of their report is: "The Committee express the opinion that it is desirable that steps should be taken to carry into effect as regards qualified military dispensers and certified assistants to apothecaries under the Apothecaries Act, 1815, the power conferred in the Council of the Pharmaceutical Society by sub-section (b) of section 4 of the Poisons and Pharmacy Act, 1908." The by-law passed by the Pharmaceutical Society in 1920 was, however, of such a restricted character that only about 30 or 40 holders of those holding the dispenser's certificate of our Society were placed on the pharmaceutical Register. But if you will allow me to point out, since that period our Society has raised the period of training from six months to nine months, and also we are, as you have just mentioned, proposing to add three years' practical dispensing experience in addition. Of course, we think they are very misguided people who made that ruling, that is the Departmental Committee. . . .

21,232. Is the grievance in essence that these people are, in view of the bar in the Act and Regulations, unable to obtain salaried appointments which formerly they did obtain, or that, having these appointments, they are not permitted to engage in a profit-making business of drug dispensing?—(*Dr. Branchley*): The grievance is that they are unable to get appointments which they were formerly able to obtain, and has nothing to do with the sale of drugs. (*Mr. Graham Bott*): The fact is that our previous rights which we had before the passing of the Act of 1911 have been, if I may use the term, filched from us, and we desire our rights restored so that we may dispense without supervision. Previous to the Act of 1911 the certified dispenser of the Society of Apothecaries was the legal dispenser, and the pharmacist had no authority whatever to dispense medicines in institutions with doctors or under the Poor Law. As a result of the National Health Insurance Act, 1911, our rights have been taken away, and we are in a position now that if any chief dispensership falls vacant such a man or woman as the case may be cannot take it up, and indeed are actually debarred from dispensing for insured persons in the circumstances mentioned. (*Dr. Wall*): In connection with this question, the alteration suggested goes a little further than the suggestions made by the Society. It goes further in that under the suggested clause it presumably would be possible for a certified assistant of the Society to keep an open shop for the purposes of supplying drugs and medicines to insured persons. I believe that it is not the desire of the certificated dispensers to keep an open shop or to supply drugs as such to insured persons, but rather their desire is to hold salaried appointments in institutions, hospitals, dispensaries and the like, and to supply drugs on behalf of that institution, not on behalf of themselves. They do not want to enter trade for the purpose of making gain. But the suggested alteration would give them that privilege, I gather. I do not think that either the certificated dispensers desire the privilege, nor do the Society wish that they should be given that privilege. . . .

21,236. (*Sir Andrew Duncan*): Is your examination of an equal standard with that of the pharmaceutical examination?—So far as the materia medica examination is concerned I believe the standard is as high. There are three sections of the examination, a section in materia medica, a section in dispensing, and a section in chemistry. Those three sections have all to be passed. The standard in chemistry, I think, is not as high as that required by the Pharmaceutical Society, the standard in materia medica is about the same, and the standard in dispensing, perhaps, is not quite so high, but it is fairly high. Of course the additional subjects required for the fully-qualified pharmaceutical chemist we do not touch.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67, Lower Mount Street, Dublin, on August 11. Mr. Richard Blair (President) in the chair. The following members of the Council were also present:—Mr. G. A. McLean Lee (Vice-President of the Society), Mr. D. M. Watson (Hon. Treasurer), Dr. J. A. Walsh, Dr. J. A. Mitchell, Dr. A. J. Barnes, Dr. Michael Ryan, Messrs. R. E. Campbell, James McCormack, Fred Storey, Patrick Brooke Kelly, John Smith, Victor E. Hanna, F. J. Fitzpatrick, and Denis J. Nugent.

IRISH LICENTIATES IN AUSTRALIA

MISS GREENE, Assistant-Registrar, read a letter from Licentiates of the Pharmaceutical Society of Ireland in New South Wales, enclosing a cutting from "The Chemist & Druggist of Australia," containing a report of a meeting of the Pharmacy Board of New South Wales, at which the application of Mr. G. J. Smyth for registration under his Irish diploma was considered. The report stated that it was mentioned that the Board had previously passed a resolution that when Ireland would reciprocate they would admit Irish qualified men. It was finally decided to refuse the application, to state to Mr. Smyth the reason of the same, and to ask him to write to Ireland supporting the Board's application for a reciprocity agreement.

The letter from the Licentiates to the Pharmaceutical Society stated: "Since June, 1921, no Irish Pharmacist can be registered out here. About 100 of us are working as unqualified assistants at a small salary for past four years."

THE PRESIDENT said their Society had no power whatever to grant reciprocity, but they hoped that power would be granted to them by the new Government.

MR. WATSON proposed: "That the Licentiates of the Pharmaceutical Society of Ireland in New South Wales be informed that the question of reciprocity will receive careful attention in connection with the legislation which is imminent in the Irish Free State."

DR. BARNES seconded the resolution, which was unanimously adopted.

A MOTHER'S REQUEST

MISS GREENE read a letter from Mrs. Elizabeth O'Neill, Waterford, in reference to the case of her daughter, Miss Mary Anne O'Neill, who was an unsuccessful candidate at the recent Preliminary examination. Mrs. O'Neill, in the course of her letter, stated:—"With reference to your return of marks received by the above candidate at her recent examination, it is noted that she failed in two subjects—English and algebra. The margin of failure in the latter subject is one-half of a mark; in the former four in composition and two in dictation. She studied under a very good professor, and in addition had lessons from a private tutor, so that from every point of view she was quite capable of passing the examination, and under no circumstances would her teachers permit her to sit for it unless she was absolutely fit. Unfortunately it was her first public examination, and consequently she was a victim of the curse of nervousness, and I have no hesitation in asserting that it was owing to this that she really went down." Mrs. O'Neill further stated that an arrangement had been made under which her daughter was to commence her apprenticeship with one of the largest firms of chemists in Waterford, that the vacancy had been kept open for her pending the reply of the Council, that should it not be possible to avail of this opportunity it would be impossible to get another before two or even three years, and that it would cause a lot of inconvenience and trouble if she were to serve her apprenticeship other than in Waterford. She suggested that the Council should be good enough to consider the readjustment of her daughter's marks "by transferring the surplus of the 77.5 per cent. received in Latin alone as to make more than good the deficiency in the subjects mentioned."

A letter was also read from Dr. Vincent White, who, writing from the Mayor's office, City Hall, Waterford,

suggested the possibility of readjusting Miss O'Neill's marks, or, failing this, that she should be permitted to present herself again at the October examination.

THE ASSISTANT-REGISTRAR was directed to reply that the Council regretted that they could not interfere with the decision of the examiners or modify the rule which provides that a rejected candidate may again come up for examination after the lapse of six months.

LIMERICK MUNICIPAL TECHNICAL INSTITUTE

MR. PATRICK O'TWOMEY, Principal and Organising Secretary of the Limerick Municipal Technical Institute, wrote:—"In reply to your letter dated July 9, the syllabus in practical chemistry would be that laid down in your Regulations. The teacher is W. J. Horne, Public Analyst for the City and County of Limerick. He holds the Department of Technical Instruction fourth year's certificate in Chemistry. He is a Fellow of the Chemical Society, a Fellow of the Microscopical Society, and a member of the Society of Public Analysts. He informs me that he is sitting in July next for the F.I.C. examination. . . . I would be glad to have the decision of your Council as soon as possible, so that in the event of our Institute being recognised I could indicate that fact in our prospectus for the coming session."

THE VICE-PRESIDENT proposed, and Dr. BARNES seconded:—"That the application of the Limerick Municipal Technical Institute asking for recognition of their practical chemistry class be granted."

MR. SMITH said he was against the proposal.

MR. WATSON said it seemed anomalous that they should accept a theoretical course and not a practical course.

THE PRESIDENT said they had licentiates in Limerick, any one of whom could walk in occasionally and see that the class was conducted in a creditable manner.

MR. NUGENT said that when he was a boy there was a great grievance in the matter in Limerick.

MR. STOREY expressed himself in favour of recognising the Limerick Institute while protesting against the inconsistency of having turned down Lurgan.

The resolution proposed by the Vice-President was passed, Mr. Smith dissenting.

CHANGES OF ADDRESS

The following notified changes of address: Mr. E. T. J. Gourley, Ph.C., to the Medical Hall, West Street, Carrickfergus; Mr. Joseph P. Butler, Ph.C., to c/o Mathew Thomas & Co., Ltd., 6 and 7 Barrack Street, Cork; and Mr. C. F. A. Doorly, Ph.C., to the Medical Hall, Bundoran, co. Donegal.

PRELIMINARY REGISTRATION

The following submitted certificates from other bodies and were admitted to Preliminary registration:—Mr. John P. Newell, 4 William Street, Galway; Mr. W. H. Macartney, 150 Shankill Road, Belfast; Mr. Patrick MacNamara, Pallasgreen, Co. Limerick; and Mr. Matthew J. MacNamara, "Shelbourne," N.C. Road, Limerick.

REPORTS FROM EXAMINERS

From the reports of the Examiners it appeared that forty-one candidates presented themselves for the Pharmaceutical License examination, of whom eighteen passed, three with honours. There were eight candidates for the Pharmaceutical Assistant qualification, of whom four passed. For the Registered Druggist examination three candidates presented themselves in Dublin, of whom two passed, and seven presented themselves in Belfast, all of whom passed. For the Preliminary examination 106 candidates presented themselves, of whom fifty-five passed, two with honours.

ELECTIONS AND NOMINATIONS

The following were elected to membership:—Mr. S. D. McKinley, Ph.C., Medical Hall, Irvinestown, Fermanagh; Miss K. Ryan, Ph.C., 17 Berkeley Street, Dublin; and Mr. R. I. Eccles, Ph.C., 517 High Street, Northcote, Melbourne. The following were elected as Associate Druggists:—Mr. M. T. O'Sullivan, R.D., the Drug Hall, Main Street, Tramore; and Mr. J. M. O'Dwyer, R.D., Prospect House, Mallow. Mr. R. J. Martin, Ph.C., The Medical Hall, Maghera, Co. Derry, was nominated for membership.

Modern Physico-Chemistry in its Pharmaceutical Applications

By W. A. Whatmough

XVII.—Spectral Lines and Atomic Agitation

THE existence of "radiation" is taken for granted in discussions upon the relationships between electronic orbits (=atomic states of Article XVI) and spectral lines. Kirschhoff's Law enunciates that a body absorbs radiation of the same frequency that it emits, but, despite this guidance, comparatively little time and thought are bestowed upon the pulsating ethereal flux (=radiation or radiant energy), which is the reciprocal means of *exciting atomic agitation and absorbing energy as atomic agitation dies down*. The undue concentration upon the rotating electron of Bohr's atom is a consequence of the ease with which the spectral "terms" of empirical spectroscopy can be transmuted into energy "levels" of quantised orbits. Though the quantum theory fits closely with observed facts, it does so solely by assuming the existence of *stationary* states which are interpreted variously (according to whether the orbit is circular or elliptical, and in the latter case the electron is considered to *vary* its speed and mass during a single revolution). The quantum theory, besides calling for varying stationary states, fails to provide any reason why an electron should *jump* from one orbit to another, or why it should emit or absorb radiation only during this transition.

This latter phenomenon will remain a mystery so long as attention is given to the electron (as a point charge rotating in space) instead of dividing attention equally between the radiating atom and the space surrounding it, for the two are inseparable in their interaction. Compare a deformable rotating ring electron with the cam in Article VII. Eccentricity as well as rotation of the cam is needed to make a pulse, but sharpness of cam only alters intensity (depth) of pulse, each rate of revolution on its axis representing a definite pulsation frequency irrespective of the eccentricity of the cam. Transfer these properties to an elongated or elliptic electron orbit revolving in space, and thereby it is evident why the circular (Bohr) orbit does not affect the ether, while the elliptical (Sommerfeld or Wilson) orbit can do so *when it precesses* (or wobbles around) *and displaces the surrounding space*. Though the subject is difficult the quantitative exchange between the energies of ether and matter are well worth studying, for the production of spectral lines is an indication of the reversible transmutation of

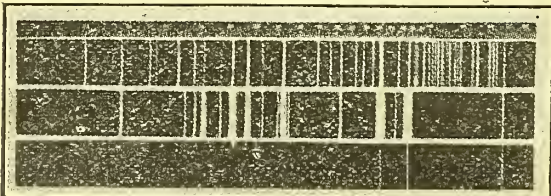


Fig. 13.—Types of Spectra of Thallium. (Photographed by Professor H. Dingle, "Chemistry and Industry," June 19, 1925, p. 626.) 1st line=spark; 2nd line=arc; 3rd line=flame.

energy into atomic mass and vice versa. Indeed, the first step towards any physical or chemical change consists of doing work in order to induce some form of atomic agitation (and ethereal disturbance, for these are conjoined in space). Spectroscopy, particularly in its newer phases, utilises the most violent means known for producing atomic agitation and disintegration, and emphasises that the distinction between physics and chemistry is purely artificial. Spectroscopy is ultra-chemical in that it relates to subatomic structures, including atoms stripped of one or more electrons and atoms recovering from abnormal agitation, while ionisation research is supplementary in that it records the energy needed to produce each abnormal atomic state. A suitable analogy to the difference between chemical and spectroscopical treatment of atoms is to compare the atom to a Chinese puzzle box, each of which is a complex of several smaller and smaller boxes (or wooden

shells), with a larger box ever enclosing the next smaller. Chemical molecules and lattice arrangements of atoms (in metals and crystals) could be imitated by joining together different-sized and coloured complexes of boxes, after the style of modern atomic models by glueing them together. Such structures could be separated (say, by water) into original components or into disintegration products thereof. In the chemical way this separation consists of gentle laving, but spectroscopy indulges in such violent buffeting that the outermost boxes may be broken open and the inner ones exposed. Flame spectra correspond to removal and reconstruction of the outermost box (=electron shell or orbit), but in the case of arc spectra or spark spectra the inner boxes

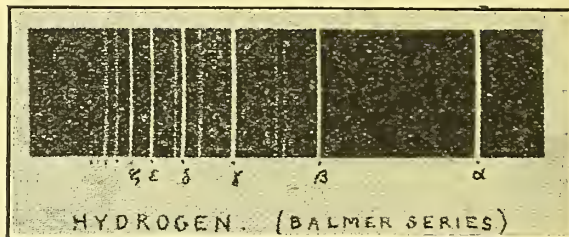


Fig. 14.—Type of Series Spectrum of Hydrogen (Balmer Series). (Photographed by Professor H. Dingle, "Chemistry and Industry," June 12, p. 602.)

(=electron orbits) are also disturbed. [It is noteworthy that removal of electrons (ionisation) increases with augmentation of spectral lines, and that oscillation (of ether) is a feature in spark spectrum.]

Fig. 13 shows these three types of spectra of thallium, and is from a photograph by Professor H. Dingle from a recent series of four articles in "Chemistry and Industry" (vol. 44, Nos. 24 to 27). Therein is a succinct summary and interpretation of line spectra on Bohr's theory, to which the student is referred for another view point than the following. Continuing the analogy, the states of agitation possible of the boxes depends upon their aggregation, thus continuous spectra (or emission of lines of all frequencies) represent all possible states of forced vibration of a complex structure. The line spectra characteristic of free atoms indicates the increase in the number of spectral lines and denotes agitation of deeper and deeper atomic levels. Atoms freed from constraints possess selective powers as regards rotation and oscillation.

Fig. 14 shows one of the series spectra of the simplest atom (hydrogen), known as the Balmer series. Omitting its formula for the time being, our interest at the moment lies in the diminishing brightness and closing together (or convergence) of the lines with increasing frequency. The brightness of the hydrogen H line shows that this state of atomic agitation is more readily attained and lasts longer than the activated conditions of atoms represented by less brilliant lines. The brilliance of each line is thus a measure of the probability of an activated atomic state. As the number of spectral lines increases with rarefaction (high vacuum) as well as excitation intensity, the situation as regards production of spectral lines can be simply summarised in the statement: Production of spectral lines is favoured by free atoms, surrounded by plentiful free space, in a state of violent (thermal) agitation.

CRYSTALLINE ZINC OXIDE.—Arising out of their experiments with oscillating crystals, Captain H. J. Round and N. M. Rust ("Wireless World," August 19) found "arzenite" to be more reliable than zincite. "An amusing point about the 'arzenite' was that the name suggested a poisonous material, and as we were continually fusing it we took great precautions not to inhale the vapour. Afterwards an analysis by a chemist of this 'mineral' indicated pure zinc oxide—in fact, a colourless pure crystalline zincite—unknown to any mineralogist we consulted. The suggestion is, of course, that it is a by-product from a furnace in some metallurgical process, but the dealers will not give the source away. . . ."

Births

Notices for insertion in this column must be properly authenticated.

ALLEN.—At the Nursing Home, Petersfield, on August 16, the wife of W. E. Allen, M.P.S., Chapel Street, of a son.

ARKELL.—At Southsea, on August 12, Nora, the wife of John Arkell, Ph.C., Eastney Road, of a son.

Marriages

McMYN—ANDERTON.—At St. Silas' Church, Blackburn, recently, James McMyN, chemist and druggist (Taylors' Drug Co., Ltd.), to Elizabeth Anderton.

RIDDOCK—BALLARD.—At All Saints' Church, Chilcomb, Winchester, on August 6, William Riddock, chemist and druggist, Aberdeen, to Grave Alberta Ballard.

SPILSBURY—NEIGHBOUR.—At Bradmore Wesleyan Church, Wolverhampton, on July 29, Harry Walter Spilsbury, chemist and druggist, to Kathleen Blanche Owen Neighbour.

Deaths

HASLETT.—At Islandmagee, co. Antrim, on August 11, suddenly, Mr. Henry Haslett, for a long period secretary of J. & J. Haslett, Ltd., wholesale druggists, North Street, Belfast. Mr. H. Haslett retired from business life seven or eight years ago.

MACLELLAN.—At his residence, Auchendarroch, Balfour, Stirlingshire, on August 7, Mr. William Walter MacLellan, a senior director of George MacLellan & Co., Ltd., india-rubber, asbestos and waterproof manufacturers, Glasgow Rubber Works, Maryhill, Glasgow, aged sixty-seven.

SLEIGHT.—At Morecambe, recently, the widow of the late Mr. W. W. Sleight, chemist and druggist (formerly in business in Leeds), aged eighty-seven.

THOMAS.—At 57 Old Town, Clapham, London, S.W.4, on August 15, Mr. Alfred Thomas, Ph.C., aged thirty-four. (See p. 285.)

WOOD.—At Brentford, on July 25, Mr. Alexander Wood, Ph.C., aged seventy-five.

Wills

MR. ALEXANDER GEMMELL BARR, Newcastle-on-Tyne, partner in Kirkpatrick, Barr & Paton, of London, until 1918, who died on March 26, left £91,421.

MR. WALTER EDWIN MILBURN, Moulton House, The Holes, Knottingley, retired chemist, left estate of the gross value of £4,715 8s. 7d., with net personalty £4,031 13s. 7d.

MR. ARTHUR BARTON KENT, 45 Holland Park, London, W., and 75 Farringdon Road, E.C., senior director of G. B. Kent & Sons, Ltd., brush manufacturers, and a director of James L. Denman & Co., Ltd., wine merchants, left estate of the gross value of £10,728 2s. 7d., with net personalty £9,727 1s. 2d. Probate of the will has been granted to his widow.

Business Changes

F. W. BERK & Co., LTD., manufacturing chemists, London, E.C.3, are removing their head offices, on August 24, from 1 Fenchurch Avenue to 106 Fenchurch Street.

MAGNUS, MABEE & REYNARD, INC., New York City, U.S.A., essential oil distillers, have removed their offices to 32 Cliff Street, but are retaining their premises at 257 Pearl Street, in order to enlarge their shipping department.

Personalities

MR. GEORGE R. SAVAGE, winner of the Fairchild scholarship, whose portrait appears herewith, commenced his pharmaceutical studies at the Lansdowne evening classes, Bournemouth. Other details of Mr. Savage's career were given in the *C. & D.*; August 15, p. 243.

As their representative in Northumberland, Durham, Norfolk and Suffolk, Francis Newbery & Sons, Ltd., druggists' sundriesmen, London, E.C.1, have appointed Mr. A. L. Hodgson; Mr. H. Hutchison has been similarly appointed by Messrs. Newbery to their Essex ground.

MR. ALFRED BARRON, South Wales, representative of Ayrton, Saunders & Co., Ltd., Liverpool, has removed to "Auldryn," Beulah Road, Rhiwbina, Cardiff.

MISS A. M. WELLS, M.P.S., trichologist to Prichard & Constance (Wholesale), Ltd., Chenies Street, London, W.C.1, has passed the final (membership) examination of the Institute of Trichologists.

MR. D. S. DICKINSON, who, as announced in the *C. & D.*, August 8, p. 224, has been awarded the Jacob Bell scholarship this year, was educated at Towcester Grammar School, and was afterwards apprenticed to Mr. H. Oldham, chemist and druggist, of that town.

A FAREWELL DINNER was given on August 11 to Mr. W. T. Treadaway, who has retired after being for twenty-five years London manager of F. H. Faulding & Co., Ltd., manufacturing chemists in Australia. Among those present were two directors, Mr. L. R. Scammell, F.C.S., and Mr. R. G. Scammell (Adelaide), Mr. G. B. Kilgour, the new London manager, and the London staff. Mr. L. R. Scammell, in proposing a toast to Mr. Treadaway, said he had been the representative of the company in London for a longer period than any of his predecessors.

MR. E. F. HERSANT, who has been awarded a Leverhulme scholarship (*C. & D.*, August 8, p. 224), was born on August 5, 1904.

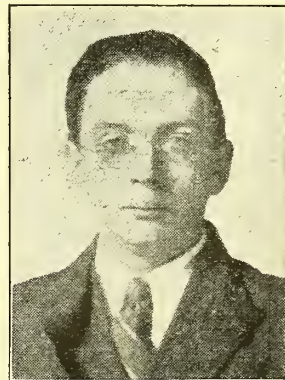
From 1914 to 1922 he attended the London Polytechnic, matriculating with first-class honours and gaining distinction in mathematics, chemistry, German, mechanics and geography. Since 1922 he has been apprenticed with Mr. E. A. Atkins, Ph.C., D.B.O.A., Wandsworth, London, S.W.18, and has studied at the Westminster College of Pharmacy. It is understood that Mr. Hersant intends to proceed to the B.Pharm. degree of the University of London.

MR. C. T. WARD, chemist and druggist (Ward & Vaughan, chemists), Southwick, Brighton, and Mrs. Ward, celebrated their golden wedding on August 5.

MILK AND TUBERCULOSIS.—The Minister of Health has issued Regulations (S. R. & O., 1925, No. 757, 1d.) prohibiting the employment of anyone suffering from tuberculosis of the respiratory tract in any dairy work involving milking, the treatment of milk, or the handling of vessels used for containing it.



MR. G. R. SAVAGE



MR. E. F. HERSANT

Trade Notes

CLOSED FOR STOCK-TAKING.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, inform us that their warehouses will be closed for stock-taking on August 29, on which day only urgent orders can be executed.

VEN-YUSA CREAM.—Particulars are given elsewhere in this issue of a special offer by C. E. Fulford, Ltd., Carlton Hill, Leeds, in connection with Ven-Yusa products. In addition, there is extra discount for displaying showcards and for cash with order.

FANCY BOXES.—Inquiries are invited by Wright Brothers, 48 Bethnal Green Road, London, E.1, regarding their fancy boxes for packing such lines as powders, perfumes and soaps. Special designs will be submitted if stock lines are not precisely what is required.

BONUS OFFERED.—Howards & Sons, Ltd., Ilford, announce on another page of this issue a window-show bonus, offered during September and October, on orders for 2 gross of Howards' aspirin tablets (small size), together with a free supply of window-display material. Orders may be made up to the equivalent value with other sizes of the tablets.

Bankruptcy Reports

Re Harold Leadwood, 120 Lord Street, Great Grimsby, embrocation manufacturer.—The public examination of this debtor was held on August 6 at Great Grimsby. He attributed his failure (*C. & D.*, August 8, p. 204) to lack of capital and trade depression. He previously appeared at the same court in April 1920, when his liabilities were put down at £130. No dividend had been paid, and the debtor had not obtained his discharge. The examination was adjourned.

Re Robert Alun Ellis Lewis, 45 High Street, Aber-avon, chemist and druggist.—The public examination of this debtor was held on August 11 at Neath. The statement of affairs showed gross liabilities £1,671 11s. 1d., of which £796 11s. 4d. was expected to rank, against assets £320 19s. 10d. The debtor attributed his failure to slackness of trade, expenses incurred by his wife's illness, an arrangement made in August 1922, when he agreed to pay 10s. in the £, and lack of capital. He started business at his present address in March 1915 with £200 capital. In 1922 his liabilities, apart from the bank's claim, were £643. He had paid £130, and one of his four guarantors paid the balance. He had since realised that the business had never paid, and during the past three years it had gradually declined. The examination was closed.

Re Thomas William Moss, Brook Street, Williamstown, Glam., dispensing chemist.—The public examination of this debtor was held on August 18 at Pontypridd. According to the statement of affairs the ranking liabilities amounted to £716 16s. 1d., while the net assets were £107 9s. 9d. The debtor attributed his position to trade depression through local industrial conditions. He stated that he qualified as a chemist in July 1920, and in October of that year, without any capital, he commenced business at Briton Ferry. His father bought the business for him for £165, and in addition guaranteed the bank to the extent of £100. The business was not a success, and the debtor left there in 1923, removing to his present address. The only books kept had been cash-takings books, and he had never taken stock, nor had he at any time during the past three years made out a statement of his liabilities and assets. The examination was closed.

UNITED STATES PHARMACOPOEIA.—It is announced that the United States Pharmacopoeia, tenth revision, is now on sale: price, \$4 a copy.

A HOME OFFICE RETURN for the year 1924 shows that during the year 168,653 experiments were performed on living animals: of these, 21,424 were performed by Miss H. W. Bainbridge, B.Sc. (Wellcome Physiological Research Laboratories, Beckenham).

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (is, each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Sundew Extract.—A process for preparing an extract of *Drosera rotundifolia*, consisting in the use of a 0.5 per cent. solution of sodium silicate as the solvent, followed by concentration *in vacuo* at 40° C. (V. Mladejovsky. 237,087.)

Separation of Hafnium and Zirconium.—A process for separating hafnium, consisting in dissolving zirconium hydroxide containing hafnium in oxalic acid, followed by fractional crystallisation. (N.V. Philips' Gloeilampen-Fabrieken, D. Coster and G. Hevesy. 220,936.)

Insecticides.—Sodium is made to react with an excess of pyridine, the mixture is then heated, cooled and oxidised, the excess of pyridine removed by distillation; the resulting product, consisting of a mixture of sodium dipyrindyls, is toxic to insects. (C. R. Smith and T. J. Dosch. 228,849.)

Arsenates.—A process for the manufacture of arsenates of alkaline-earth metals, consisting in heating the corresponding arsenites, or a mixture of oxide and hydroxide of alkaline-earth metals with arsenious oxide, in a stream of hot gases from a furnace to between 600° and 700° C. (Société Chimique des Usines du Rhone. 227,090.)

GERMANY

Soluble Quinine Salts.—A process for the manufacture of soluble basic salts of quinine consisting in combining quinine with methane or ethane sulphonic acid. (Chemische Fabrik vormals Sandoz in Basel. D.R.P. 415,029.)

Soluble Organic Silver Salt.—An aqueous suspension of 4-amino-2-argentomercaptobenzol-1-carbonic acid sodium is treated with sodium formaldehyde-sulphoxylate and heated to 65° C., whereupon the solution, when cool, is poured into alcohol. The precipitate, a light brown powder containing 27.8 per cent. of silver, is intended for therapeutic use. (Chemische Fabrik auf Aktien vorm. E. Schering. D.R.P. 414,797.)

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

E/178. "Belfort" hot water bottle	M/178. Himalayan oil
B/138. "Colloid" effervescing Carlsbad Salern. "Alpine" brand	G/178. Kasturi lozenges
B/148. Cromer's balsam	H/168. Parrowane (or Farrow-ane) for horses
B/148. Gasolaxin	B/148. Patna perfume
P/178. Glaciolene	R/178. "Rehfas" I.R. stomach tubes
A/148. Haldon's Hair Restorer	B/148. Stavosin

DISCOURAGING BRITISH PRODUCTS.—A Canadian visitor writes as follows to "The Times" concerning his experience in London shops: "... I went to a chemist, in a hurry, for some shaving soap. 'What kind?' said the druggist. 'I don't know,' I replied (thinking of English), 'but give me the best.' When I got home I found my shaving cream 'Made in U.S.A.'"

A PHARMACOLOGIST ON BORIC ACID.—Discussing the new food preservative Regulations recently with a representative of "The Times," Professor W. E. Dixon, Cambridge University, remarked that he regarded the complete prohibition of boric acid which would ultimately come into force as a great benefit to the nation. The fact that all people retained in their tissues throughout life that most insidious substance, and that few took less than 8 gr. daily—many much more—should in itself be disquieting; but when it was known that boric acid could produce alimentary and renal disease the desirability of its prohibition was conclusive.

Observations and Reflections

By Xrayser II.

With Your Editorial Article

on the education of a pharmacist I am in hearty agreement; and though I have spoken strongly against those who shirk qualification, it must not be supposed that I approve of all that the Council have laid down as necessary for it. Cramping is inevitable under such a syllabus, and, like yourself, I gravely doubt whether the chemist and druggist of the future will be any better fitted for his work than we of the older school were for ours. The successful pharmacist does not get his education from books, but from the exercise of his craft, as a preliminary to which not very much book learning is, after all, required. It is admitted that botany cannot be learned efficiently from books, and this is equally true of pharmacy in all its branches. I have no hesitation whatever in saying, after a good deal of experience, that what is learned in short courses at colleges of pharmacy is very much of the nature of cramming, and the mind that has been fed too much from the professor's spoon is much less likely to derive real nourishment from it than the one that has learnt to feed itself.

An Ideal Position

should, in theory, exist after August 1, 1925, with would-be pharmacists passing an approved Preliminary examination before commencing an indentured apprenticeship, and examination in the purely scientific subjects of the curriculum before proceeding to the final period of college training and the final test of fitness for qualification. Such a course of instruction is what the worthiest of our predecessors hoped and wrought for, and if conducted in all sincerity throughout it cannot fail to produce pharmacists as highly qualified as anyone could wish. From a practical point of view, however, much depends upon the indentured apprenticeship of the future. What may the pupil expect to learn during the 4,000 hours' experience in an open shop? If he can acquire an intimate knowledge of the properties of the innumerable substances we handled in bygone days, in addition to all that is involved in the conduct of a pharmacy, the dispensing of medicines, and the art of salesmanship, then indeed will a useful practical result have been attained. But where are the shops in which the desired training can be obtained, and how many master-pharmacists are prepared to give such training?

Quite Recently

a pharmacist friend on holiday revisited the place where he was an indentured apprentice many years ago, and found it still possible to gain there such knowledge as had proved invaluable to him in the course of a not uneventful career in pharmacy. It is an old-fashioned business, the proprietor of which has never failed to give due attention to all important sidelines and developments. Though well-trained apprentices have passed through his hands, his experience does not lead him to favour the employment of such as a source of cheap labour. Yet it would pay the community if that pharmacist could have had it made worth his while to have a constant succession of indentured apprentices. Temporary assistants at the shop have begged to be allowed to remain for a time, without salary, for the sake of the practical experience they quickly found they could gain there, and one would feel more hopeful about the future of pharmaceutical education if there were more such places.

A Happy Medium

in the matter of pharmaceutical education is struck by the Fairchild scholarship papers. So-called pure science there receives its full share of attention, the practical pharmacy test is excellent, and the paper on business knowledge provides the necessary relief to the training in theory. It would be instructive to observe what would happen if the preparation of the test papers for the Jacob Bell Memorial and Manchester Pharmaceutical Association scholarships were entrusted

to the Fairchild examiners. This would be an experiment well worth trying, and might result in a bigger entry for the scholarships examination.

The Educational Requirements

for qualification as a chemist and druggist are sufficiently complicated, exacting, and expensive to explain, if they do not excuse, the doubt whether it is worth while to qualify. I have no hesitation in saying that it is, but I can understand the point of view of those who say that it is not. The examinations are so largely of a purely technical character, and have, comparatively speaking, so small a direct connection with the work of the shop, that I can well imagine a commercially-minded young man considering them negligible—that the examinations may seem to him not worth their cost, since it is demonstrably possible to do very well without them if one is content to take a little lower rank and aims merely at getting a decent living by any lawful means. It is a very low view to take, and I suspect that those who take it must submit to many indignities, and be often in danger of overstepping the legal limits of the unqualified man; but these are not considerations likely to have much weight with the man capable of choosing such a position. Argument with them should not be directed to prove the feasibility or otherwise of carrying on business as an unqualified man. Let its possibility be granted, and the argument against attempting it rest upon the ignobility and loss of self-respect attending such a position as the unqualified man is almost certain to fall into.

The Discussion

at the British Pharmaceutical Conference of the question of delegates' meetings was not only futile, but farcical. The resolution discussed at such length, after so long a preliminary discussion, too, was found at last not to have been seconded, and so fell ignominiously to the ground. Scarcely anybody saw any necessity for a change, yet nobody appeared to be satisfied with things as they are. It was surely possible, said one speaker, to think out some practicable scheme, yet neither he nor anybody else succeeded in doing so. The meeting was, in short, completely at loggerheads, and a less favourable specimen of statesmanship was perhaps never exhibited by any meeting of the kind. The discussion of the extension of the title "pharmaceutical chemist" to all registered men was equally inconclusive, and showed an equal lack of breadth of view and practical common sense.

There is an Article

by Sir Frederic Kenyon, of the British Museum, in the current number of the "Quarterly Review" that will, I hope, be read and pondered by all members of the Council of the Pharmaceutical Society. The subject is the position of the classics in the educational systems of England and the United States. The position is not satisfactory, says the writer, but it is improving, and I gather that a distinct reaction against the anti-classical movement of some years since is now in progress. There is, we are told, a growing recognition, even among the working classes, that both Greek and Latin hold treasures to the possession of which every man has a right of entry. A marked revival in the teaching of these languages has consequently set in. They are the root of all the branches of intellectual activity, and necessary to the thorough educational equipment of men engaged in trade and commerce scarcely less than to the specialist. That Latin should no longer be compulsory in our Preliminary examination is a scandal, and shows the hollowness of our leaders' zeal for education. That backward step ought to be retraced without delay. Some acquaintance with Latin is necessary to every chemist; even his technical education requires it. That it is now treated merely as a technical subject of which one is required to know no more than the few dog-Latin phrases still met with in physicians' prescriptions is curious indeed, and the reason usually assigned is ridiculous. In America there is a superiority of classical students over those that do not take classics of 13 per cent. in all other subjects, and nine-tenths of this superiority is due to something gained from the study of Latin itself.

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Editorial Articles

Poisons Law—I

CODIFICATION of the laws relating to the sales of poisons becomes more and more an urgent necessity, especially since there was set up a dual control. On the one hand there is the Pharmaceutical Society, which is the expert authority and, on the other, the Home Office, always anxious to extend its departmental influence in dealing with "dangerous" drugs. Between these two powers, the chemist is often at a loss to know where he stands—or whether he is standing at all. The passing of another Dangerous Drugs Act, making three within five years, serves to show that amateurs or people with lack of technical knowledge or faulty understanding are at work in devising remedial measures for an admitted evil. In each case the game of Spenslow and Jorkins is played: at first it was the Peace Treaty of Versailles carrying out the agreement of the Hague Convention; now, the department cannot help itself because of the League of Nations or a health committee, or some other advisory authority apparently not yet constituted, and to be housed in Paris; and the crowning wrong is that the people of this or any country have no control whatever over the difficulties placed in the way of genuine medication. The whole method in this country is a relic of the Defence of the Realm Act, when Orders in Council were made at the instigation of departments while the technical authority on the subject was misled or, worse still, ignored. The imposition of criminality on the dispensing of medicines, by constructing complex regulations, the ramifications of which it is easy to overlook, is one of the worst blots on the laws of Great Britain. And the Pharmaceutical Society's Council is not free from the taint of patching in procedure, and in law, which adds unnecessary burdens to distract and confuse the mind. The publication by THE CHEMIST AND DRUGGIST of a new Poisons Card No. 2, showing an extended list of poisons on which there are restrictions of sale in Great Britain, serves to illustrate the complication of the laws. No final word seems possible; and even at the present moment there is a move by the Board of Agriculture to secure free sale of arsenic dips and nicotine fluids on a wholesale scale without restrictions, following a worked-up agitation by interested parties. Chemists naturally ask when it is all going to end and common sense prevail. A review of the whole position has become a necessity. A chemist, apart from the wholesaler, is presented with three facets—(1) dispensing, (2) retailing, and (3) the supply to professional men, medical, dental, and veterinary. In addition, there are superimposed special regulations dealing with habit-forming drugs. The same principles do not apply in each case. In (1) dispensing medicines, the matter has been confused by erroneous statements made arising out of expectations under the Labelling of Poisons Order, 1924, which comes into force on January 1, 1926. The 1923 Act amending the Dangerous Drugs Act, 1920, and Section 17 of the Pharmacy Act, 1868, states in Section 4 (1): "Where any poison to which Section 17 of the Pharmacy Act, 1868, applies is supplied on and in accordance with a written prescription given by a registered

medical practitioner under and in accordance with the provisions of the Acts relating to National Health Insurance, the seller shall not be required to make an entry in the book in accordance with the requirements of the said section." The prescribed limits of this paragraph are clear, but the inset summary of this is: "Amendment of Section 17 of Pharmacy Act, 1868, with respect to sales of poisons on medical prescriptions, etc." It has been assumed that the phrase used in Section 17, namely, "nor apply to any article when forming part of the ingredients of any medicine dispensed by a person registered under this Act," has been by the later Act restricted to medical prescriptions dispensed. This is reading into the respective clauses what is not there, and the statement by non-technical authorities that it does so is gratuitous. It is important that this point should be made clear, in view of the Labelling Order of 1924. The change made in Section 17 of the old Act is clearer if the old and the new wording are set out side by side:—

Old
Labelled with the name of the article and the word poison, and with the name and address of the seller of the poison

New
Labelled with the name and address of the seller of the poison, with the word "poison," and with the name of the poison, and in the case of a preparation which contains a poison as one of the ingredients thereof, with such particulars as to the proportion which the poison contained in the preparation bears to the other ingredients, as may be prescribed by Order in Council.

It will be seen that there is no change in the law relating to dispensed medicine; what was there before is there now—that is all. But, in view of the Labelling Order, the question is asked: is a mixture prescribed by a non-medical person, which contains a small amount of a poison, exempt from the Labelling Order? It is laid down in several cases that "dispensed medicine" is not a restrictive term, and includes making up from a formula with the directions given on the label. A dispensed medicine need not have the proportion of the poison, if any, stated on the label; but the last part of Section 17 requires that, alternatively, there shall be an entry in a book kept for the purpose of the preparation with the name of the person to whom it is sold, and the medicine shall be duly labelled with the vendor's name and address. A family recipe handed in over the counter would come under the method just mentioned; but this may not be the most expeditious or business-like way of dealing with it, and the easier way is likely to be the one of writing on the label the proportion of poison contained therein. The conclusions are that dispensed medicines are not affected by the Labelling Order, and the usual routine may be followed unchanged. As to (2) the retailing of poisons, there is equally no change in the law relating to the sale of poisons *per se*, save in the particular instances to which attention is called later. The change which has taken place in the poisons law refers to preparations; and though, in the Courts, it has been held that the sale of a preparation containing morphine must be held to be a sale of the substance itself, it was in relation to another phase of the subject. The original phraseology was "the name of the article"; a simple poison would be within that term, but a preparation or admixture might be labelled with any fancy name, and only the word "poison" on it. This is changed: on and after January 1 next the name of the poison must be given, together with its relative proportion to the other ingredients. The difficulties affecting poisons, apart from special regulations, arise from the vagueness

of the language employed and the uncertainty as to which Schedule a substance or article is to be placed in. The Labelling Order difficulty is a different phase which has been freely analysed and explained during the past months. Before setting out the principles on which our Extended List of Poisons has been constructed, item (3), relative to the sale of poisons, may be considered. Medical men may obtain Part I poisons from a wholesaler or retailer on a signed order, or, like other members of the public, subject to the conditions of the poisons register. It behoves chemists to know, as near as may be, when to demand signed orders and when not. The proposition is quite different from a sale to the general public, since one of the primary duties of the chemist in keeping open shop is to exercise his skill and knowledge to prevent the illegitimate distribution of poisons and their preparations. It is better to err on the side of safety, and insist on firmer restrictions than are legally required, than to be lax. The Pharmaceutical Society strongly recommends all pharmacists to adopt special precautions when dealing with the following articles, with the view of prevention of accidental poisoning: Acetanilide, amyl nitrite, antipyrine (phenazone), butyl-chloral hydrate, elaterium, phenacetin, and vermin killers containing free phosphorus. The sale of such articles as adrenalin (or adrenaline), lead salts, phosphorus and preparations containing it in the free state, poisonous glucosides, and preparations containing potassium bichromate, synthetic cocaine substitutes, and zinc salts also demands special precautions.

Insurance Dispensing Position.—III

Late Dispensing Service (1)

CHEMISTS' evening hours of business are another factor of the Insurance dispensing position meriting further consideration. (The discussion of the position was commenced in our issue of July 18 (p. 98).) This question has been the subject of much discussion between the Panel and Pharmaceutical Committees in many areas throughout the country, and the Retail Pharmacists' Union has devoted much time and attention to it. In carrying out any scheme of this magnitude, the success of the undertaking depends very largely on the extent to which the different persons concerned in it are willing to work in harness together. Antagonism and isolated effort, if they do not wreck the scheme, at least prevent the best results from being achieved. No person, no section of the community can have things all its own way all the time, and conferences at which all parties are represented are generally the best means of reconciling opposing interests. But each party should attend such conferences prepared to accept the best obtainable for its side rather than determined to secure at all costs all it claims. Undoubtedly, it is in this way that this question of late evening hours for chemists should be approached. The position may be briefly stated thus: (1) The patient must receive his medicine; (2) he must visit the surgery at the hours fixed by the doctor to get his prescription; (3) the chemist who supplies the medicine closes his shop at his own time. In any industrial district in a big town, it is frequently late in the evening before the worker can attend the surgery. Moreover, if the doctor has many visits to make it may be late before he can begin to see patients at his house. Difficulty arises when the doctor's hours of attendance do not coincide with the chemist's business hours, and the nature of the problem may be gathered from the following extracts

from the minutes of evidence given before the Royal Commission on National Health Insurance :—

13,039. In paragraph 24 you suggest some form of co-operation between Panel and Pharmaceutical Committees in regard to surgery hours so as to eliminate complaints as to the failure to supply medicines promptly. Will you amplify for us a little the kind of co-operation you have in mind?

Mr. Melhuish. We think that the regulations should provide for the reference of questions such as surgery hours and chemists' closing hours to the Panel and Pharmaceutical Committees jointly, for them to report upon the matter to the Insurance Committee after consultation with one another. We think that this should be so because it is a subject which is better discussed in an unofficial atmosphere.

A section of the medical profession holds the view that the present pharmaceutical service is unsatisfactory, especially in the evenings and on holidays. The following excerpt from the statement of evidence submitted to the Commission by the Medical Practitioners' Union will make this clear :—

59. *Pharmaceutical Services.*—There is still room for considerable improvement in the direction of ensuring a more prompt supply of medicines. The complaints which most frequently reach doctors are . . . that it is often difficult to get medicines after 8 o'clock and that the Sunday service is far too restricted. The doctor is required to be on duty night and day. . . . This requirement is imposed because the need for his services may arise at any time. The need for the chemist's services may be less urgent, but that cannot excuse the very indifferent preparation which is made to meet it. Where there are three or four chemists' shops within a short distance of each other, it should be possible to obtain medicine at any hour of the night or day and on Sundays. The Medical Practitioners' Union suggests to the Commission that this minimum provision of pharmaceutical service should obtain in all urban areas of appropriate size. The procedure by which it can be made could no doubt be suggested by those responsible for providing pharmaceutical services.

This point, however, was met by Mr. G. A. Mallinson in his supplementary answer to Question 18,216 :—

Night Service.—I think Professor Gray suggested that there was a responsibility cast upon the chemist under his present contract to provide a complete night service. That is not so. Our present contracts do not throw upon us a responsibility for a complete night service. As you know, there are arrangements made with the doctors for emergency requirements in the night. Then for such out-of-hours' work such as the chemists should provide, there is a special Subcommittee in each area which is supposed to organise that, and we co-operate. I do not want you to have an impression that we as chemists individually are under contract to provide a 24-hours' all-night service. That would be wrong, because it is not so.

In order that we may understand the present position we must turn for a moment to the terms of service for chemists which are contained in the third Schedule to the Medical Benefit Regulations. Section 5 (1) provides that :—

Drugs and appliances will be supplied at the place or places of business specified in the application made by the chemist for inclusion in the Committee's list, and the hours during which the place or places will be open for the supply of such drugs and appliances are those specified in the scheme to be made for that purpose under the regulations.

Clause 9 (1) of the Regulations provides for the preparation of the scheme referred to :—

The Insurance Committee and the Pharmaceutical Committee shall jointly prepare a scheme for securing that one or more places of business of persons supplying drugs or appliances in each district shall at all reasonable times be open to insured persons, and for this purpose the scheme shall specify the days and hours on and at which such places shall be open, and, subject to the approval of the Minister, the scheme shall form part of the terms of service of persons supplying drugs or appliances. In the event of the Committees failing to agree on the scheme, the matter shall be referred to the Minister, whose determination shall be final.

Obviously it is contemplated that in some districts of some Insurance areas it may be necessary to set up a rota of chemists to provide this dispensing service during evening hours. In order that DISPENSING patients may know where to obtain their medicines during those hours when most of chemists' shops in the locality are closed, the following clause 5 (2) is included in the third Schedule :—

At each place of business at which a chemist supplies drugs or appliances he is required . . . to exhibit at times when the place of business is not open and in such a manner as to be visible at such times a notice to be provided by the Committee in the form prescribed in Part V of this Schedule, indicating the days and hours on and at which the places of business of other persons supplying drugs or appliances in the immediate neighbourhood are open.

Uncertainty in Linseed Oil

THE restricted consumption of the world's markets in linseed from January to June this year compared with last is indicated by the returns of shipments given in the table below. It was also estimated recently that something like three-quarters of a million tons were left for shipment or disposal in the second half of the year from the River Plate and India combined, that is, before the next Argentine crop is available. These facts have tended to exert considerable influence in linseed oil circles. The position of this article was dealt with in our issue of June 13 (pp. 857-858), when it was suggested that trade needs over the second half of this year would be less than generally anticipated, and there seems to be, as yet, no reason to modify this view. Under the rather intense selling pressure in seed, chiefly from the River Plate over the end of June, coupled with the weakness in North American markets and the sluggish demand for oil-product, quotations for both seed and the oil dropped considerably. But buying in seed recently improved as a result of the comparatively attractive rates ruling. The c.i.f. cost of Argentine seed, which had fallen to about £17 5s. per ton, rallied to the extent of roughly £3 per ton in sympathy with Calcutta seed, while London spot oil improved, more or less in proportion, to figures varying to about £43; the home trade demand, however, was not at any time very brisk. The coal crisis and other adverse influences have naturally tended to accentuate the feeling of caution in most industrial quarters; and it is not surprising that the market both for seed and the oil-product have since developed a temporary reactionary tendency. Crushers have shown a disinclination to follow the advance in seed, although its cost which showed a few pounds a ton reduction from the level ruling in the earlier part of this year is admittedly fairly reasonable. For one thing, there is now every indication of ample supplies for crushers for the remainder of this season, contrary to the fears entertained six months or so ago. Details of home supplies accounted for within the last six months, with comparison for last year, are as follows :—

Imports into the U.K. (tons)	Jan.-June, 1924	Jan.-June, 1925
From Russia	975	12,978
„ Argentine Republic . .	167,758	66,422
„ British East India . .	40,079	69,335
„ Canada	nil	1,505
„ other countries	8,441	3,750
Total	217,253	153,990

It will be seen that the aggregate for the first six months of this year at close on 154,000 tons still shows a heavy deficit compared with the same period last year. But the receipts for June, amounting to 47,399 tons, were substantially in excess of the total for the previous

month and crushers are, for the present, confronted with ample supplies and looking for further concessions. Reduced world's crushers' requirements are emphasised by an examination of the takings of seed as given below:—

	Jan.-June, 1924	Jan.-June, 1925
Linseed total shipments (tons)		
From all sources to all destinations	1,110,400	667,300
From the Argentine to all countries	970,300	446,100
Details from all sources:		
To the U.K.	334,875	212,525
„ the Continent	455,525	321,775
„ the U.S.A.	312,000	133,000
„ other countries	8,000	nil

While the total shipments of linseed to all countries, from the various sources of supply, disclose a deficit of 443,100 tons this year to the end of June compared with the same period last year, to 667,300 tons, the proportion contributed from the River Plate amounted to only 446,100 tons against 970,300 tons for January-June last year. A decrease of 524,200 tons is thus indicated. On this basis, the unshipped surplus there on July 1 was estimated at 560,000 tons, or over 60,000 tons more than actually shipped in the second half of last year. Taking the River Plate surplus mentioned above, with about 185,000 tons, the balance of the current Indian crop, this would give an aggregate surplus from the two main sources of supply of 745,000 tons for shipment in the second half of the year. Judging from the much smaller quantities of seed taken by Europe and the United States this year to the end of June, and allowing for the more reasonable prices now ruling, the takings for the second half of the year should at least be equal to, if not greater than, the total for the same period last year. The outlook would seem to be pretty healthy, even assuming that there is no increase in needs on the part of either American or home importers. The crop outlook in the United States and in Canada is, on the whole, satisfactory, although the U.S. official estimate of the crop was not so good as last year, contrary to a private Duluth forecast, which intimated that the yield should turn out about 30 million bushels or approximately the same as in 1924, in addition to six million bushels in Canada. In the event of the United States crop showing a deficit, which, according to the Government estimate, would amount to roughly 100,000 tons, American importers would again have considerably to increase their takings from the River Plate. This contingency has to be borne in mind apart from the possibility of some recovery in the shipments to European ports, given an improvement in economic or trade conditions. The latest American crop news was disappointing, a smaller out-turn being looked for than a month ago, and markets have hardened.

Store Prices and Others

THE question of store prices is one which is ever present with the retail chemist; there is scarcely a working day during which he is not confronted with the customer who quotes the price at which he can purchase the same articles at "the stores." The first consideration which naturally occurs to one is that a large firm, or company, owning many branches, deals in very large quantities compared to the private owner, and can, therefore, command better buying prices. This is, of course, obvious; but that large company has to have its distributing centre, its own laboratories and packing rooms, so the expenses it saves by purchasing over the wholesaler's head are incurred in its own staff. What it really does save is the wholesaler's profit, which deduction leads the retailer to ask what wholesale profit is, and whether it represents the big difference between store prices and minimum retail prices. Then, again, the branches of a company have higher overhead charges than those of a retail chemist

who runs his pharmacy on business lines; the number of the staff, the girls in the cash desks, the duplicate cash books, time taken by customers going backwards and forwards to pay their bill and collect their parcels, the rigid division of goods into departments entailing a visit to several counters to make the purchases, the keenness of a pharmacist in business for himself to effect a sale, the opportunities afforded the pharmacist of recommending suitable remedies for minor ailments—all these things should react in favour of the small man and tend to compensate for the difference in price which he pays for purchasing in small quantities.

SPECIAL QUOTATIONS AND SUPERFINE QUALITY

In the case of goods such as Epsom salts and borio acid, better prices can be obtained by purchasing in hundredweight kegs—and it must be a very small business which could not manage to buy hundredweight quantities of these items; a difference of, perhaps, 10 per cent. could be effected, and at least another 10 per cent. should be saved by the careful pharmacist on the details of working enumerated above. Does the purchasing power of a big firm exceed a 20 per cent. margin over the ordinary wholesale prices? There remains the question of quality; some of the wholesale houses make a feature of what may be termed a superfine quality at an advanced price, and many pharmacists purchase this quality; is the advantage in quality really represented by the price? The ordinary chemist has neither the means nor the time to institute elaborate tests; he can only accept the word of the wholesaler. A large company can, however, run a laboratory to institute control; and the point that arises in the retail man's mind is whether a drug can, so to speak, just scrape through the B.P. tests, whereas a better quality would pass them with honours, and whether this difference is reflected in the price. Even if it is, it would be difficult for the public to appreciate these differences; the public only judge by price, unless the quality is obviously so inferior that it could not pass unnoticed. Then there is the question of the rate of profit on turn-over. I believe that retail price lists are worked out to show an average of a third on sales; do the stores reckon to get this return in the drug department, or do they cut the profit on drugs, knowing that they get much larger percentages in other departments? In the *C. & D.*, I, 1920, p. 853, a profit scale was given for retailers, in which the profit on drugs, sundries and own proprietaries was shown at 50 per cent. on sales; and it has always been reckoned in business that drugs sold in small quantities should show a much larger percentage than the average third, to make up for loss in weighing and packing, and also as a set-off against the small profits shown on patents.

SOME ACTUAL FIGURES

Since writing the above paragraphs I have had an opportunity of examining a price list which yields the following rather curious figures:—Roger & Gallet's lip salve, 6½d.—costs 4s. doz., and is sold by all chemists at 6d.; Melrose tablets, 2½d.—cost 1s. 4d. doz., advertised retail price 2d., sold by grocers, etc., at 1½d. These are two cases in which the store price is dearer. Against this, the following P.A.T.A. lines are quoted at cut rates:—Parment, 2s. 8d. (P.A.T.A., 2s. 9d.); Scott's pills, 1s. 2d. and 2s. 10d. (P.A.T.A., 1s. 3d. and 3s.); Watkin's Mulsified Shampoo, 2s. 5d. (P.A.T.A., 2s. 6d.); Tiz, 1s. 2d. (P.A.T.A., 1s. 3d.); Zepto pencil, 7½d. (P.A.T.A., 9d.). Cotton-wool is listed at 1s. 10d., 2s. 10d., and 3s. 11d.; most chemists sell a cheap quality (absorbent) at 1s. 6d., and some cutters at 1s. 4½d. Naphthalene balls, 5½d. per lb.; these are cut by chemists and oilmen to 4½d. per lb.—obviously not an economic rate, as the B.D.H. list quotes at 6d. per lb. Lig. quassia, 5½d. per lb.; B.D.H. price is 8d. per lb. Saffron, 13s. 6d. oz. (B.D.H., 14s. 6d. oz.); but who wants to buy more than an ounce? Finally, we have lime-water 7½d. a quart or 4d. a pint; this corresponds with our price-list, and yet local chemists are retailing it at 1½d. a pint. They cannot buy distilled water at the price; this instance shows how the small man often throws away a legitimate profit when he could get it easily.

British Pharmaceutical Conference

Delegates' Meeting

[ABRIDGED OFFICIAL REPORT]

(Continued from the C. & D., August 15, p. 242)

The proceedings of the delegates of the Pharmaceutical Society's branches were resumed on July 29, when the chairman at once called on Mr. Sargeant.

Mr. SARGEANT said they had been discussing the four points that had been laid before them. These were suggestions which had been made by pharmacists in various parts of the country. He formally moved the following resolution:—

That the Council be recommended to invite all branches to discuss during the next session the subject of the Charter and Pharmacy Acts, with a view to considering what steps, if any, should be taken for their amendment; that copies of the new Act applicable to Northern Ireland be circulated to the branches, and the discussion on this subject be adjourned to a future meeting of delegates.

The CHAIRMAN pointed out that there were two points which required consideration:—(1) Specifying that a meeting of branch delegates be given the powers at present possessed by the general meeting, such a meeting not necessarily to supersede the present annual general meeting; (2) the point relating to the title of pharmaceutical chemist, which had been dealt with. Now there was (3), that all registered pharmacists should pay an annual registration fee; and (4) the Council of the Pharmaceutical Society should have power to remove persons from the Register. Consideration of these two latter points would be helped by a study of the Irish Act already referred to.

The resolution was seconded by Mr. J. L. HIRST.

Mr. LEES (Oldham) asked whether a *précis* of Mr. Sargeant's paper could be sent to the branches.

The CHAIRMAN said that when the Irish Act of Parliament was circulated, a *précis* of the proceedings of the meeting would be sent to the branches.

Sir WILLIAM GLYN-JONES drew attention to the two most vital words in that resolution, which were "if any," as it might not be politic to take any steps. He did not think that anyone wanted this resolution to go to the branches on the understanding that this meeting was at the moment committed to the principle of doing anything.

The resolution was carried unanimously.

After the reading of Mr. John Keall's paper on "The Dangerous Drugs Act and Regulations, including the Labelling of Poisons Order," the meeting was declared open for discussion on this subject.

Mr. CROMBIE (Glasgow and South-West Scottish) pointed out that under the Dangerous Drugs Acts there were several anomalies. It was ridiculous that Dover's powder could not be sold when mixed with other substances. There appeared to be some difficulty in obtaining an authorisation required by farmers desiring a supply of laudanum. The Act, in reference to the doctor and veterinary surgeon, said that they must do certain things, but it did not lay down any penalty for omissions. In the case of the chemist the penalties were very severe.

Mr. J. LEES (Oldham) said that in some districts it appeared that the inspection of chemists' books was reasonably conducted, but the method varied.

Mr. F. WOKES (Liverpool) said that there had been cases in which pharmacists had been penalised because they supplied "dangerous" drugs on orders which they thought were genuine, but which turned out to be false. He had drafted a resolution which might cover this point, and proposed the resolution on behalf of the Liverpool Branch. At present, when a question arose as to whether a certain medical man was authorised to order a "dangerous" drug, they had to go to an outside body to find out. Surely the pharmacists were entitled to the information themselves.

Mr. H. BERRY (Birmingham) would like to have information as to the method of supply of "dangerous" drugs from one pharmacy to another.

Mr. J. L. HIRST (Liverpool) seconded the proposal put forward by Mr. Wokes.

Mr. MANN (Birmingham) said that the main trouble

with the dispensing chemist consisted in not satisfying himself that the order or prescription was authentic. Could not the Home Office be pressed so that all prescriptions or orders should be given on a special form, which could be issued to persons authorised to use them?

Mr. W. L. NUNDY (Warwickshire) drew attention to the difficulty that they had in prescriptions given by specialists. The only way, at present, that it seemed these could be dealt with was by getting the local doctor to corroborate his signature. He would like to see the specialist send the prescription direct to the chemist and not hand it to the patient.

Mr. W. G. McNAB (Edinburgh) said that he had had the privilege of attending a Home Office inquiry when a suggestion was made and pressed home that prescriptions for "dangerous" drugs should be written on an official form. His mind was quite clear that the suggestion was agreed to.

Mr. W. BROWNE (West Metropolitan) said that the source of all the trouble was the medical man; owing to his imperfect knowledge of the law and the Regulations, most prescriptions were incomplete. The medical man ought to have some instructions.

Mr. J. NOBLE (North-East Metropolitan) desired to have some information about the Labelling of Poisons Order. What should be done when selling a bottle of bay rum and cantharides, or small quantities of laudanum, peppermint and paregoric?

Mr. J. SMITH (Dumbarton) said that the powers of the inspectors seemed to be quite indefinite, and it would be well to press for a more definite declaration of what those powers were. He instanced a case in which an inspector ordered a firm to put iron bars on their windows so that the "dangerous" drugs might not be stolen. When the National Health Insurance Act was agreed to by pharmacists, the registration and all the trouble that the Dangerous Drugs Act had brought about had never been contemplated.

Mr. GRAY (East Metropolitan) said that he thought, before the Regulations became law, the medical profession ought to have had a course of training in writing the prescriptions required. As regards the Labelling of Poisons Order, he would like to see it destroyed altogether.

Mr. H. WATKINSON (Bolton) said that he came of a family of chemists, and he did not believe that there was any body or profession that had the interest of the public at heart more than the chemists. He felt that the Dangerous Drugs Act was so complicated that it was most difficult to deal with.

Mr. J. H. FRANKLIN (Manchester) said he would like to know the position of a mixture of Dover's powder and mercury with chalk. There seemed to be a little difficulty in understanding what was the proper course in connection with the sale of mixtures with the so-called exempted Dangerous Drugs Act drugs. He would like an expression of opinion as to whether corrosive sublimate tablets containing 8.75 gr. should be considered a Part I poison.

Mr. FORBES (Dundee and North-East Scottish) said that before the Dangerous Drugs Act came into operation he had been frequently called upon to supply large quantities of laudanum; to-day the business was dead. It was supplied now by the veterinary surgeons, and the farmers could buy as much as they liked. In his opinion at the present time the business was not being done under the Dangerous Drugs Act.

Mr. E. S. PECK (member of Council) said he would like to ask Mr. Keall to make this point clear—whether the whole of the prescription should be in the writing of the medical man? (Voices: "No.") He agreed. He thought it would be a good thing for the delegates to go back to their branches and endeavour to arrange meetings with local medical men so as to inform them as to what was essential in prescriptions for "dangerous" drugs. He believed in the special form for prescriptions and orders, but did not agree that a specialist should send his prescription direct to the chemist.

(To be continued)

AN Englishman, on his first visit to America, came to a small town, and said to the first man he saw, "Do I have to see a doctor before I get a drink here?" "No, after," answered the man.—"Wine Trade Review."

Trade Report

The prices given in this section are those obtained by Importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, August 20.

BUSINESS conditions show little change from those recently prevailing, the dull tone being rather more accentuated this week, and not until the month is over is any revival looked for. The outstanding feature has been the active demand for Japanese mint oil, mostly on speculative account; stocks of crude and regulus antimony are very short and prices nominal. Mercury is about 5s. per bottle cheaper where quantity is concerned. TN shellac for spot and delivery is about 5s. per cwt. lower. Zanzibar cloves are also easier; pimento is firmer. Senega is firm but quiet, and cascara sagrada is unchanged. Saffron is lower. The demand for essential oils, with the exception of mint oil, is quiet this week. Cochin lemongrass is dearer. American peppermint oil is without interest at the moment, buyers holding aloof; spearmint is firmer and may advance further. Among pharmaceutical chemicals, business continues subdued, with prices, as a rule, steady. Barbitone and sulphonal are slightly cheaper. Phenacetin is now steadier after the recent falling values. Milk sugar is firmer, and salicin has been reduced by makers. Among industrial chemicals business is inclined to lag, partly on account of holidays in manufacturing areas. Lead products, such as red and white lead, have advanced sharply with the metal. Arsenic has eased further. Carbolic acid crystals maintain the recent improvement. Business in so-called vegetable oils has been quiet throughout. Palm oil is cheaper and palm kernel is easier; castor is dull and unsteady.

Higher	Firmer	Easier	Lower
Lobelia	Lemongrass oil (Cochin)	Arsenic	Alum
Mint oil (Jap.)	Milk-sugar	Ginger (West African)	Aubepine
Pyridine	Pimento	Linseed oil	Barbitone
Red lead	Spearmint oil	Mercury	Cloves
Sodium benzoate		Methyl sulphonal	Palm oil
White lead		Palm kernel oil	Pitch
Wood oil (Hankow)	Steadier	Rosewood oil	Saffron
		Sulphonol	Salicin
	Paraformaldehyde		Shellac

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	August 12	August 19
Amsterdam	Fl. to £	12.107	12.07½—12.08	12.05½—12.05½
Berlin ..	M. to £	20.43	20.39—20.40½	20.39—20.41
Brussels ..	Fr. to £	25.22½	107.60—108.05	106.80—106.90
Calcutta ..	Per rupee	24d.	18½d.—18½d.	18½d.—18½d.
Constantinople	Pst. to £	110	815—830	815—830
Greece ..	Dr. to £	25.22½	310—313	313—315
Hong Kong	T.t. \$	—	28d.—28½d.	28d.—28½d.
Italy ..	Lire to £	25.22½	134½—134½	134½—134½
Kobe ..	Yen	24.58d.	20½d.—20½d.	20½d.—20½d.
Lisbon ..	Escu.	53½d.	2½d.—2½d.	2½d.—2½d.
Madrid ..	Pts. to £	25.22½	33.68—33.78	33.70—33.72
Montreal	\$ to £	4.86½	4.85½—4.85½	4.85½—4.85½
New York	\$ to £	4.86½	4.85½—4.85½	4.85½—4.85½
Oslo ..	Kr. to £	18.159	26.12—26.22	26.10—26.13
Paris ..	Fr. to £	25.22½	103.80—104.25	103.40—103.50
Singapore	Per dol.	—	28½d.—28½d.	28½d.—28½d.
Switzerland	Fr. to £	25.22½	25.00—25.02½	25.03—25.04
Vienna ..	Sh. to £	24.02	34.52—34.55	34.48—34.54
Warsaw ..	Zloty to £	25.22½	27.00—27.25	28 sellers

Cablegram

NEW YORK, August 19.—Business is quiet. Peppermint oil in tins has declined to \$14.00 per lb., and belladonna root to 14c. per lb. Hydrastis (golden seal) is higher at \$4.60, and gentian has advanced to 8c. per lb. Stramonium leaves are also higher at 10½c. per lb.

Crude Drugs, etc.

ANTIMONY is still very firm, but there is not much doing. English refined is quoted up to £85 by leading producers, who, however, are virtually out of the market, while £75 is being taken elsewhere. Chinese on the spot is scarce and nominal at £65, and c.i.f. for parcels afloat are called £62 upward. Crude is also scarce and nominal at £55 per ton on the spot.

CADMIUM.—Metal has arrived freely and orders are being booked at 2s. 3d. per lb., either for American or Australian.

CAMPOR.—Japanese refined slabs are quiet at 2s. 9d. per lb. on the spot, and for August-September shipment 2s. 7½d., c.i.f., is quoted. Crude is 2s. 6d. spot and 2s. 4d. c.i.f. for August-September shipment. Synthetic powder in cwt. cases is offered at 2s. 8½d. per lb.

CARAWAY SEED.—Dutch of new crop has been sold at fluctuating prices, closing 6d. per cwt. better than last week, at about 28s. 6d. c.i.f.

CINNAMON.—To arrive, Ceylon assortment for September-November shipment is quoted at 1s. 6d. per lb., c.i.f.

CINCHONA.—At the auction to be held in Amsterdam on August 26, a total of 59,270 kilos Java pharmaceutical bark, representing 1,608 kilos of quinine sulphate, will be offered, as well as 3,130 kilos of Bolivian bark, representing 210 kilos of quinine sulphate.

CLOVES are easier, with Zanzibar offering on the spot at from 11d. to 11½d. per lb. To arrive the sales include August-October at 10½d. and October-December shipment at 10½d., c.i.f. The statistics for the week ending August 15 show 100 bales landed and 672 delivered, leaving a stock of 10,860, against 24,369 in 1924 and 12,919 in 1923. So far this year the landings have been 9,467, against 37,154 last year, and the deliveries 13,711, against 32,522 in 1924.

COD-LIVER OIL remains firm, with finest non-freezing Lofoten 1925 oil offering at 155s. per barrel, ex wharf London, and on c.i.f. terms U.K. ports 153s. is quoted. Writing on August 17 our Bergen correspondent reports the market is firm but unaltered.

ERGOT.—New crop Portuguese is quoted at 1s. 5d. per lb. c.i.f., and Spanish at 1s. 8d. c.i.f.; slightly wormy Portuguese can be had at 1s. 5d. spot.

GINGER.—West African is in steady demand and slightly easier, spot offering at 63s. per cwt., and for August-September shipment 60s. c.i.f. is quoted. Japanese on the spot continues dear and in small demand at 90s. per cwt., and August-September shipment 85s., c.i.f. London or Hamburg. Fair washed rough Cochin is 105s. spot, Calicut 110s., Cochin B cut 160s., C 150s. per cwt.; small to bold Jamaica 90s. to 120s. per cwt., and being fairly plentiful and comparatively cheap, compared with Cochin, is selling fairly well.

GUM ACACIA.—Kordofan natural sorts are quoted at 51s. per cwt., ex wharf London, and cleaned 53s. per cwt.

LOBELIA.—It is difficult to get offers of new crop to arrive, and although business was done recently at 1s. 2d. to 1s. 3d. per lb. c.i.f., there are no sellers below at least 1s. 6d. c.i.f.

MAGNESIUM.—There is some little business in Continental material at a slight discount compared with home-made metal. The latter costs 3s. 9d. to 4s. 3d. for small ingots or sticks, and quotations for powder vary from 5s. to 6s. per lb., according to quality.

MENTHOL is inactive at from 46s. per lb. for Kobayashi-Suzuki on the spot. Forward positions have also been inactive; a small sale of January-March has been made at 35s. c.i.f., and buyers, sellers asking 36s. c.i.f.

MERCURY.—Demand has continued light, and quotations have been rather wide at about £13 10s. to £13 15s. per bottle, but sellers of small lots are wanting at least £13 17s. 6d. There is no indication of freer offers from the Continent while producers have ostensibly not much metal available for sale. July imports amounted to 731 bottles, this making a total for seven months of 12,679 bottles, compared with 18,153 bottles for the same period last year.

NUTMEGS.—Imports of West Indian continue small and full prices are being paid. Spot stocks of East Indian are exhausted, and there appears to have been no forward purchases for this country, so that higher prices are anticipated.

OPIMUM.—The following report has been received from Turkey:—

CONSTANTINOPLE, August 18.—“During the period July 28 to date arrivals were as follows: Druggists', 144; 'softs', 6; and Malatia, 15 cases. Stocks amounted to: Druggists', 207; 'softs', 46; and Malatia, 23 cases. During the past fortnight 20 cases new crop druggists' were sold at £T.25-26, and 3 cases Malatia at £T.28-30, per oke. We believe that the druggists' opium was destined for Japan. In consequence of the drop of about 20 per cent. in the value of the pound sterling, the cost price of Turkish opium has advanced by the same amount, without any prospect of business. At Smyrna 180 cases arrived, while 70 cases were sold.”

PEPPER.—Black Singapore on the spot is quiet at 9d. per lb. To arrive, September-November shipment is quoted at 8½d. per lb., c.i.f., and October-December at 8½d. c.i.f. Lampong, for August-October, has been sold at 8½d., and

October-December at 8½d., c.i.f. Lampong on spot is 8½d., Tellicherry 9½d., and Alleppy 9d. White Muntok has been sold on the spot at 1s. 1½d. per lb., while to arrive the sales include August-October at 1s. 0½d. to 1s. 0½d. October-December at 1s. 0½d. to 1s. 0½d. per lb., c.i.f., f.a.q. Singapore on the spot is 1s. 1½d. per lb. for f.a.q.

PIMENTO is firmer, spot sellers quoting 4½d. to 4¾d. per lb., with the replacement value at slightly less than 4d. per lb. Continental demand is the cause of the spot advance.

RUBBER.—The market has been on the quiet side this week, and although the forward positions have fluctuated daily, the spot price has not changed to any appreciable extent. After the recent fall the market seems to have levelled itself to a more satisfactory basis, due, no doubt, to the absence from the market of "outside" speculators. During the week a fair number of orders arrived from America, and although sellers are now more inclined to meet buyers, it is far from easy to secure supplies with the present reduced stock. The position at present commanding the greatest attention is the period October-December, which still remains at a heavy and unnatural discount, viz., 9d. per lb. Stocks on the past week showed a further decline. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and August, 3s. 4d.; September, 3s. 1d.; October-December, 2s. 3d.; January-March, 2s. 6d. per lb.

SAFFRON has declined on the spot, with sellers of superior Valencia at 112s. 6d. per lb.

SENEGAL is firm but quiet and unchanged at from 2s. 7d. to 2s. 8d. per lb. on the spot.

SHELLAC has been quiet and slightly easier, usual standard TN orange quality offering on the spot at from 220s. to 225s. per cwt.; fine second orange is 250s., pure button 255s., and AC cakey 235s. Futures have been inactive, sellers of August delivery quoting 210s., October has been sold at 207s. 6d. to 205s., and December at 202s. 6d. to 200s. To arrive, TN for September-November shipment is quoted at 200s., c.i.f.; Calcutta spot is Rs. 94 (paid).

SEEDS.—The seed market remains quiet, with very little alteration in prices. ANISE: Spanish, 60s.; Russian, 50s.; Levant, 49s. CANARY SEED: Mazagan keeps firm, with sellers at 33s. 6d. per cwt. on the spot; good bold Spanish is offered at 36s. spot. CORIANDER SEED is in very small demand, with sellers at 21s. 6d. spot for Morocco. CUMIN SEED is quiet; Maltese has sellers at 55s.; Morocco is steady at 52s. 6d. on the spot. DILL SEED is steady at 22s. FENUGREEK SEED (Morocco) is steady at 16s. to 17s. 6d. per cwt. spot. HEMP SEED: Manchurian is steady at 17s. LINSEED: Morocco is quoted at 23s. spot. MUSTARD SEED: English is scarce at 36s. per cwt.

SQUILL.—Fair white on the spot is obtainable at 22s., and new crop of similar quality can be had at 17s. per cwt. c.i.f. Thirty bags have arrived.

STARCH PRODUCTS, ETC.—Dutch maize starch powder (corn-flour) is 18s. per cwt., American is 17s. 10½d., and pearl starch 17s. 4½d. per cwt. net on the spot. American maize starch crystals is 21s. 6d. net, and Dutch crystals is 21s. 6d. per cwt. Dutch farina is 19s. 6d. for superior, and to arrive is 19s. per cwt. f.o.b.; superior Dutch (maize) dextrin is 26s., and No. 2 25s. American canary dextrin is 22s., and white 21s. 9d. per cwt., ex store, London. Rice starch crystals, pure English, is steady at 36s. to 37s. per cwt.; Continental, 30s. per cwt.

Essential Oils

AN active demand has continued for Japanese mint oil, which is dearer. Business in other oils is quiet and prices generally are unchanged. Cochin lemongrass is firmer, and American spearmint has advanced. Rosewood oil is cheaper.

The following are the quantities and values of the essential oils (other than turpentine) imported into and re-exported from Great Britain during July, 1925, compared with the same month in 1923 and in 1924, also for the seven months ended July 31, 1925:—

		1923	1924	1925
July imports (other than turpentine)	lb.	192,481	331,280	204,675
	value	£44,828	£107,212	£58,094
Jan.-July imports do.	lb.	2,099,680	2,381,303	2,374,763
	value	£523,884	£668,109	£729,529
July re-exports do.	lb.	45,051	98,968	75,020
	value	£22,339	£40,578	£31,367
Jan.-July re-exports do.	lb.	524,135	610,596	611,359
	value	£225,322	£225,043	£235,027

ANISE (STAR).—"Red Ship" on the spot is quiet and unchanged at 3s. per lb.

BERGAMOT is unchanged, with sellers on the spot at from 18s. to 19s. per lb. for 37 to 39 l.a. Forward quotations are still considerably in advance of these prices at from 20s. 6d. to 21s. 6d. c.i.f.

CAMPHOR.—Japanese white in drums is quiet at 51s. per cwt., and tins and cases at 55s.

CASSIA.—Spot sellers quote at the unchanged rate of 8s. 6d. per lb. for 80 to 85 c.a.

CINNAMON.—Ceylon leaf is quiet and unchanged at 5s. 1d. per lb. c.i.f. to arrive, and 5s. 6d. spot.

CITRONELLA.—Ceylon on the spot is unchanged, with sellers at 2s. 1d. to 2s. 2d. per lb., and for shipment 1s. 11d. to 2s. c.i.f.; Java is quoted at 3s. 9d. and 3s. 1½d., c.i.f. to arrive.

CLOVE.—Spot sales of B.P. English oil have been made at 6s. 5d. per lb. Up to 7s. is asked, according to quantity.

LAVENDER.—We understand that the first arrivals in London of French new crop oil, which have taken place this week, have been practically all sold.

LEMON is slightly more inquired for, with spot values still below prices to arrive. Spot, 4s. 10½d. to 5s. per lb.

LEMONGRASS.—Cochin on the spot is dearer at 4s. per lb. and 3s. 11½d. c.i.f. to arrive.

LIME.—West Indian distilled is quiet but firm at from 9s. 3d. to 9s. 6d. Hand-pressed appears to be unobtainable except in retail lots.

MINT.—Japanese dementholised is one of the few features of the week, and it has been difficult to buy spot or near positions owing to small stocks. Spot sales of Kobayashi-Suzuki have been made up to 18s. 6d. per lb., and from 18s. 6d. to 19s. is now asked. In forward positions a good business has been done, comprising sales of July-August shipment at from 16s. 6d. to 17s. 6d.; August-September, 17s. to 17s. 3d.; October-December at 14s. to 14s. 6d.; January-March at 15s. to 13s. 6d. c.i.f. At the close, August-September is quoted at 17s. 3d. c.i.f., and October-December at 14s. 5d.

ORANGE.—Sicilian is unchanged, with sellers on the spot at about 9s. to 9s. 6d. per lb.

PALMAROSA on the spot is quiet and unchanged, with sellers of original pots at 12s. 6d. per lb.

PATCHOULI.—Singapore distilled oil is quoted on the spot at from 12s. 6d. to 13s. 6d. per lb. as to quality.

PENNYROYAL.—Fair sales of Spanish have been made at 7s. 6d. per lb.

PEPPERMINT.—Demand for American natural tin oil continues at a standstill, and the price is nominal; probably 52s. 6d. c.i.f. would be cabled out. Sales of new crop Franco-Mitcham have been made at 52s. 6d. to arrive, delivered.

ROSE.—At least three rose oil principals from Bulgaria have visited London recently, and we understand that quite a fair amount of business has been done in the new crop.

ROSEWOOD (bois de rose) is quiet and easier on the spot, with sellers at from 11s. 9d. to 12s. per lb.

SPEARMINT can be had at 33s. per lb. on the spot, but it cannot be replaced at this price.

The following arrivals have taken place from the countries named during the period August 13 to 19 inclusive: Anise (Fr.), 3 cs.; bergamot (Fr.), 2 cs.; (It.), 11 cs.; camphor (Ch.), 15 dm.; cinnamon (Cey.), 19 cs.; (Madagascar), 7 dm.; (Seych.), 3 dm.; citronella (Cey.), 7 dm.; (Jv.), 4 dm.; eucalyptus (Aust.), 12 dm.; geranium (Fr.), 4 cs., 15 dm.; (Reun.), 11 dm.; lemon (It.), 6 dm., 17 cs.; linaloe (Mex.), 6 dm.; orange (It.), 61 cs.; (Fr.), 1 cs.; patchouli (Seych.), 6 cs.; pennyroyal (Fr.), 3 dm.; peppermint (Germ.), 3 dm.; petitgrain (Argent.), 25 cs.; pimento (B.W.I.), 10 cs.; pine (Germ.), 2 cs.; sandalwood (Germ.), 2 cs.

Pharmaceutical Chemicals, etc.

THE market as a whole continues steady, but business is still subdued. A feature is that prices quoted from Germany for many chemicals are not competitive. Barbitone and sulphonal are easier. Milk-sugar is firmer and salicin lower.

ACETANILIDE remains dull, but conditions may improve now that imports are prohibited: spot, B.P. crystals and powder, 1s. 5½d. to 1s. 6½d. per lb., according to quantity.

AMIDOPYRIN remains quiet but steady at from 13s. 6d. to 13s. 9d. per lb.

ASPIRIN.—Prices are well maintained, with business passing: good brands, 2s. 6½d. to 2s. 7d. per lb. for quantities and 2s. 7½d. to 2s. 8d. per lb. for small parcels.

AUKEFINE is cheaper on the spot, with good quality offered at 8s. 6d. per lb.

BARBITONE shows a further slight decline, down to 10s. 3d. per lb. on spot; the market remains dull.

BENZALDEHYDE (.03) is steady as quoted at about 3s. per lb.

BENZOIC ACID (B.P. practically f.f.c.).—It is doubtful if any spot is now available, while there is considerable inquiry on the market: fully worth 3s. 6d. per lb.; Continental is 2s. 9d., and British 2s. 3d. per lb.

BENZONAPHTHOL is steady but quiet, with prices from 3s. 4d. to 3s. 6d. per lb.

BETANAPHTHOL, although quiet, is still about 3s. per lb., with imports prohibited.

BROMIDES are unchanged, with a fair amount of inquiry: ammonium, about 2s. 6d. per lb.; potassium, B.P. crystal

and granular, about 1s. 11d. per lb.; sodium, B.P. crystal and granular, about 2s. 2d. per lb.; slightly cheaper for large quantities of all salts.

CALCIUM LACTATE is steady as quoted by British makers at about 1s. 5d. to 1s. 7d. per lb.; dealers' prices do not appear to be competitive.

CHLORAL HYDRATE is very steady and business is good: dealers' prices of 3s. 5d. to 3s. 6d. per lb. are fully maintained.

CITRIC ACID (B.P. crystals).—A week of slow business is recorded, while the quotations remain at about 1s. 3½d. to 1s. 4d. per lb., less 5 per cent.; slightly less would be accepted for quantities.

COUTMARIN is selling on the spot at from 11s. 6d. to 11s. 9d. per lb.

CREOSOTE (B.P.) continues steady at 2s. 1d. to 2s. 2d. per lb. CREOSOTE CARBONATE shows no change at about 6s. 6d. per lb.; market dull.

GUAIACOL CARBONATE remains quiet but steady at 6s. 6d. to 6s. 9d. per lb.

HEXAMINE.—The limited business is generally based on a figure well under 2s. 6d. per lb.

HYDROQUINONE.—Prices are fully maintained here and good business continues: quoted from 4s. 4d. to 4s. 7d. per lb., according to quantity.

LACTIC ACID (B.P.).—Bulk quantities are offered at 2s. 6d. and small lots in bottles at 2s. 8d. per lb.; technical, 50 per cent. by weight, £42 per ton, net.

METHYL SALICYLATE.—British makers' prices are under those quoted by dealers, the latter asking about 1s. 6d. per lb., while makers are about 1s. 4½d.

METHYL SULPHONAL is slightly easier on a dull market at 17s. 6d. per lb.

MILK SUGAR is rather firmer at from 78s. to 79s. per cwt. for B.P. powder.

MUSKS.—Xylol is offered at the cheaper rate of 8s. per lb. Sales of ketone have been made at 34s. Ambrette is quoted at 30s.

PARAFORMALDEHYDE (100 per cent. powder) is rather steadier and prices are now at about 1s. 7d. to 1s. 9d. per lb., according to quantity.

PARALDEHYDE has met with some demand, with prices unchanged at 1s. 1½d. to 1s. 4d. per lb., according to quantity and packing.

PHENACETIN, which has experienced keen competition for some weeks, with persistently falling values, seems steadier, and the lowest price to-day is about 4s. 2d. to 4s. 3d. per lb. for quantities.

PHENAZONE is maintained in the region of 6s. to 6s. 3d. per lb., according to quantity, and the tone is now steady.

PHENOLPHTHALEIN.—The lowest prices seen this week are from 4s. to 4s. 3d. per lb. for quantities, while other offers are up to 4s. 6d. per lb.

POTASSIUM METABISULPHITE.—Makers quote 6d. to 7½d. per lb., one-cwt. kegs included, f.o.r. London.

POTASSIUM PERMANGANATE (B.P.) is steady at unchanged prices of 7½d. to 8d. per lb., in drums.

RESORCIN is very irregular on quotation, with British makers listing it at 3s. 10½d. per lb., and other spot offers up to 4s. 3d. per lb.

SALICIN.—Makers have reduced their price to 13s. per lb.

SALICYLIC ACID (B.P.).—Dealers' prices are close up to 1s. 3d. per lb., and perhaps a shade less for large lots. British makers' prices continue at about 1s. 2½d. per lb. for ton lots.

SALOL in quantities is quoted at about 3s. 3d. to 3s. 6d. per lb.

SODIUM BENZOATE (B.P.) is dearer at about 2s. 1d. per lb., with supplies limited.

SODIUM POT. TART.—Makers quote 80s. per cwt. net for ton lots and upwards.

SODIUM SALICYLATE.—The general feeling indicates rather firmer conditions, and dealers' prices are dearer than British makers. The latter quote for large quantities, naked, at works, B.P. powder, 1s. 10½d. to 1s. 11d. per lb.; crystals, B.P., 2s. to 2s. 1½d. per lb.

SULPHONAL shows a further slight fall, with dealers offering down to 12s. 3d. per lb. for quantities.

TANNIC ACID (B.P. lewiss) is steady at 2s. 9d. per lb.

TARTARIC ACID (B.P. crystals).—Holders appear to be anxious to secure any business on the market, and most sales have been slightly under the quoted rate of 1s. per lb., less 5 per cent.

TERPIN HYDRATE is steady on a quiet market at 1s. 7½d. to 1s. 9d. per lb., according to quantity.

THYMOL holds steady as quoted at about 12s. 6d. to 13s. 9d. per lb., but business is not active.

VANILLIN (100 per cent. from cloves).—There is no change in British makers' and dealers' prices at 21s. 6d. to 22s. 6d. per lb., according to quantity.

The following are makers' prices (per lb., unless otherwise quoted):—Acid camphoric, 21s. to 19s.; iron ammonium citrate: B.P., 1s. 11d. to 1s. 8d.; U.S.P., 1s. 10d. to

1s. 7d.; green, 2s. 7d. to 2s. 2d.; mercurials: red oxide, 5s. 4d. to 5s. 2d.; corrosive sublimate, 3s. 9d. to 3s. 7d.; white precipitate, 4s. 8d. to 4s. 6d.; calomel, 4s. to 3s. 10d.; potassium citrate, 1s. 10d. to 1s. 7d.; sodium citrate, B.P.C. 1911, 1s. 7d. to 1s. 4d.; U.S.P. ditto, 1s. 10d. to 1s. 7d.; sodium nitroprusside, 16s.; sodium sulphide, pure recryst., 1s. 2d. to 10d.; ether, 720, 1s. 6½d. to 1s. 1½d.; ether, 720 purif., ex s.v.m., 2s. 3d. to 1s. 11d.; potassium acetate, 1s. 4d. to 1s. 1d.; terebene, 2s. 3d. to 2s.; acid phosphoric, sp. gr. 1.750, 1s. 1d. to 11d.; admium sulphate, pure, 4s. 3d. to 4s. per lb. Bismuth salts: carbonate, 14s. 9d. to 12s. 9d.; subnitrate, 12s. 9d. to 10s. 9d.; citrate, 13s. 4d. to 11s. 4d.; salicylate, 12s. 2d. to 10s. 2d. per lb.

Among the chemicals which have paid Key Industry Duty are the following: Potassium bromide crystals, £292; propyl alcohol, £143; undescribed chemicals, £997.

Industrial Chemicals, etc.

London, August 19.

BUSINESS so far this month in heavy chemicals has been inclined to lag. Generally speaking, however, prices remain more or less stationary. Cornish arsenic shows further weakness. Acetone is strong. Lead products have advanced sharply with metal prices. Epsum salt may harden in view of an attempt to form a syndicate in Germany.

ACETIC ACID is fairly steady, and there has been a little more business about of late: 80 per cent technical, £38; 80 per cent. pure, £39 per ton, in barrels; glacial, pharmaceutical, 99/100 per cent., £66 per ton, in glass demijohns, ex wharf; glacial, in barrels, £55 per ton.

ACETONE is rather short here, and dealers' prices are firm at £75 per ton for B.G.S., in drums.

ALUM from dealers is quoted cheaper, with the market dull: lump, in casks, on spot, £9 per ton.

AMMONIA (ANHYDROUS) has been brisk on spot, with dealers obtaining their quoted rate of 1s. 3½d. to 1s. 4d. per lb. for small lots of 99.95 per cent., in loaned cylinders.

AMMONIUM CHLORIDE (grey galvanising) is steady, with business at about £26 per ton, spot.

ARSENIC.—Demand is very poor and the market continues weak, partly due to cheap American offers. White Cornish powder ranges from about £19 to £20 per ton, delivered f.o.r. at the mines.

BARIUM CHLORIDE (93 to 100 per cent.), large white crystals, is offered at £8 10s. per ton, ex wharf, London, Liverpool or Manchester; fine white crystals, £7 per ton, c.i.f. U.K. in ten-ton lots.

BARYTES continues to arrive from the Continent, with prices ranging from £3 5s. to £6 per ton, c.i.f. U.K. port.

BLEACHING POWDER is dull, with dealers' prices of about £9 7s. 6d. per ton for 35/37 per cent. available chlorine.

CALCIUM CHLORIDE (70 to 75 per cent. solid) is quoted at £4 7s. 6d. per ton, ex wharf, London, Liverpool, Manchester or Glasgow.

CARBON BLACK.—American is quoted at 5½d. per lb., in cases, ex store, London.

COPPER SULPHATE is steady but very quiet on the basis of about £24 10s. to £25, f.o.b., for casks, less 5 per cent. The July exports were 1,138 tons, against 1,699 tons same month last year, the total for seven months being 35,654 tons, against 38,349 tons last year.

CREAM OF TARTAR fails to attract much business: dealers offer at 76s. to 77s. 6d. per cwt., less 2½ per cent., according to quantity.

EPSOM SALT is steady on spot, with commercial, in bags, at £4 5s. to £4 10s. per ton. German makers are reported to be forming a syndicate, and this may affect prices here.

FORMALDEHYDE continues quiet, but prices are maintained at about £38 10s. per ton for 40 per cent. by volume, ex wharf.

FORMIC ACID is offered at £48 per ton for 85 per cent., in carboys, ex wharf London, Manchester or Hull.

GLAUBER'S SALT (commercial quality) is dull at about £3 10s. to £3 12s. 6d. per ton, in single bags.

LEAD PRODUCTS.—Dealers' prices for red and white lead show a sharp advance on a firm market, due to a similar movement in metal prices: red lead, £42 10s.; white, dry, £43 10s.; ground in oil, £45 per ton, c.i.f. U.K. port.

OXALIC ACID continues very slack at the low level of 3½d. to 3d. per lb., according to quantity, and including duty.

POTASH CARBONATE.—Calcined (90 to 94 per cent.) is offered to arrive at £23 10s. per ton, ex wharf London, Liverpool or Manchester; calcined, 96 to 98 per cent., is £25 10s., ex wharf London to arrive; calcined, 80 to 85 per cent., is £21 10s., ex wharf; hydrated, 83 to 85 per cent., is £21 10s. per ton, ex wharf London to arrive.

POTASH CAUSTIC.—Conditions on spot have now settled down, with 88/92 per cent. solid, in drums at £29 to £29 5s. per ton; business fair.

POTASSIUM CHLORATE is scarce and firm at close up to 4d. per lb.

POTASSIUM PERMANGANATE has been moving here fairly well, with commercial quality, in drums, at about 6d. per lb.

POTASSIUM PRUSSATE holds steady on spot at about 7½d. per lb. for yellow and slightly cheaper for quantities to come forward.

SAL AMMONIAC is steadier on spot, with shipment prices 10s. to £1 a ton cheaper: spot, dog-tooth crystals, £34; medium, about £31; fine white crystals, £22 per ton, in casks.

SALTCAKE for home trade is steady at £3 12s. 6d. per ton, delivered in bulk quantities.

SALTPETRE.—Continental refined (99 to 100 per cent.) is quoted at £25 10s. per ton, ex wharf London, Liverpool, Manchester or Glasgow.

SODIUM ACETATE remains dull, and dealers' price ex store is barely steady at £18 7s. 6d. to £18 10s. per ton.

SODIUM BISULPHITE to arrive is offered at £14 15s. per ton, ex wharf U.K. ports, for 60 to 62 per cent.

SODIUM CHLORATE is steady, with dealers quoting spot at about £29 to £30 per ton.

SODIUM HYPOSULPHITE.—Dealers' prices are unchanged, with fair business being done: pea crystals, photographic, £13 10s. per ton, in one-cwt. kegs; commercial quality, £9 to £9 5s. per ton, in casks; British makers' prices for pure crystals, £14 to £15 per ton, according to quantity, delivered to buyers' stations.

SODIUM NITRITE is steady but quiet at £23 5s. per ton, London.

SODIUM PRUSSATE is moving fairly well, with British at about 4d. per lb.

SODIUM SILICATE is quoted at £7 10s. per ton, c.i.f. U.K. ports, for 140° Tw.

SODIUM SULPHIDE remains very dull and easy: 60 to 62 per cent., solid, £12; broken, £13 per ton, in drums.

SULPHUR continues in fair demand. American crude is £5 7s. 6d. to £5 10s. delivered Manchester. Refined Sicilian flowers are quoted at £9 12s. 6d. to £9 15s., and roll £7 15s. ex London warehouse.

COAL-TAR PRODUCTS, ETC.—There has been a big jump in pyridine, with supplies short and the demand brisk. Pitch shows further weakness on a flat market. Carbolic acid crystals maintain their last week's improvement. In other items business remains quiet, with no change in values. ANILINE OIL remains quiet at about 7½d. per lb., carriage paid, in loaded drums. ANILINE SALT from British works is about 7½d. to 7¾d. per lb., naked, at works. BETANAPHTHOL remains quiet at about 11¾d. per lb., carriage paid. TOLUOL is steady, with fair business being done: pure, 1s. 9½d. to 2s. 2d.; 90's, about 1s. 6¾d. to 1s. 7d. per gallon. XYLOL is neglected: pure, 3s. 3d.; commercial, 1s. 10d. to 2s. 3d. per gallon. CREOSOTE OIL has been in better request at steady prices: ex works, 5½d., and f.o.b. 6½d. per gallon, in bulk packing. CARBOLIC ACID (CRYSTALS).—Business for export continues fairly good and prices are well maintained at about 4¾d. to 4½d. per lb., f.o.b., in bulk quantities; crude 60's, 1s. 2d. to 1s. 3d. per gallon. CRESYLIC ACID remains rather subdued at 1s. 7d. to 1s. 8d. per gallon for 97 to 99 per cent. NAPHTHALENE lacks business: flakes and crystals, £11 to £13 per ton, according to district. Pure METHYL ALCOHOL is steady at £47 per ton, in drums, ex wharf, and slightly less for quantities. PYRIDINE is now very firm at 20s. per gallon, with supplies limited. PITCH is now down to 39s. 6d. per ton, f.o.b. East Coast, with practically nothing doing.

Fixed Oils, etc.

BUSINESS throughout has been quiet and some important items, such as palm oils, show a decline. Linseed oil and American turpentine are about level on the week. ACID OILS.—Market quiet but fairly steady at unchanged prices: coconut and palm kernel, 40s. 6d.; groundnut, 38s. 6d.; soya, 33s. 9d. spot. CASTOR is dull and unsteady: pharmaceutical, 61s. 6d.; first pressings, 56s. 6d.; second pressings, 54s. 6d. spot, in barrels, in not less than one-ton lots; Madras, 53s. for shipment. COCONUT continues quiet with values unaffected: deodorised, spot, 53s.; Ceylon, 46s. 3d., c.i.f.; Cochin, 60s., c.i.f. COTTON quieter and values are maintained with difficulty: deodorised, 55s.; common edible, 53s.; soap-making, 48s.; crude, 44s. 3d. spot. GROUNDNUT very quiet; deodorised, spot, 57s. 6d.; crude Oriental, 49s. 6d., c.i.f. PALM KERNEL.—Quiet and a shade easier: deodorised, 50s. 6d.; crude, 46s. 3d. spot. PALM has weakened considerably and business is now dull: Lagos, 41s. 9d.; softs, 41s. 6d.; mediums, 40s. 9d.; hards, 41s.; bleached, 44s. 3d. spot. RAPE quiet and unchanged; refined, 54s. 6d.; crude, 51s. 6d. spot. SOYA.—Business quieter and market steady: deodorised, 49s. 9d.; crude, 45s. spot. LINSEED (raw, naked) dull and rather easier terms for all positions are recorded: on spot, 42s. 3d.; August, 41s. 4¾d.; September-December, 41s. 4¾d.; January-April, 40s. 9d. Hull, on spot, 42s.; August, 41s. 3d.; September-December, 41s. 4¾d.; January-April, 41s. 3d. TURPENTINE has been erratic, chiefly in consequence of very sharp fluctuations in the American quotations, which touched 100 cents at Savannah. There has been a further increase in the London

stocks to 26,804 barrels, which, with 8,950 barrels afloat, makes the visible supply 35,754 barrels, this comparing with 35,050 barrels at the same date last year. Any increase of buying would probably quickly influence the market, as receipts on America have fallen off a good deal. On spot, 70s. 6d.; September-December, 71s. 6d. January-April, 75s. 6d. WOOD.—Hankow, in barrels, on spot is quoted at 65s. 9d.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Business is still slow and small in volume, but prices quoted are fairly well maintained. Lubricating oils on spot are inclined to ease, and quoted prices are not firm: pales, £11 7s. 6d. to £23 7s. 6d.; reds, £13 10s. to £23 10s.; dark cylinders, £13 10s. to £33; filtered cylinders, £21 5s. to £35 per ton, less 2½ per cent., ex wharf, London.

Sugar Cane Wax

DURING the last few years the manufacturer of sugar cane wax has developed into a promising industry as a by-product of molasses in Natal. The output at the present time is rather restricted, and probably does not exceed 5,000 or 6,000 tons per annum, but the quality is good, and prices for the best are in the region of £80 per ton for the pure white wax, of which a very small proportion is made in Natal, down to about £40 or £50 for black wax. The inferior qualities fetch only from about £15 to £20 per ton. There is a good demand for cane wax, and larger quantities are being used for various manufacturing purposes in England.

Control of Hops

THE war control of hops which was instituted in 1917, expired on August 16, but it is understood that the Kentish growers have decided to set up a co-operative selling agency in order to maintain prices. Fluctuations in values of hops have been extraordinarily wide, but as compared with an average of £79 per ton in 1914 the range has been between £116 and £335 during the period of control. It was £175 last year and £260 in 1923: since 1914 the average price has been £234 per ton. Kentish growers produce about 70 per cent. of the crop, but in order to make the co-operative agency a success it would be necessary to persuade the big growers in Hereford, Worcester and East Sussex to join the scheme.

Yugo-Slav Opium Production

THE "Farmaceutski Vjesnik," Zagreb, reports that this year's yield of opium in Yugo-Slavia will provide a very large surplus for exportation, over 100,000 kilos. This year's production in South Serbia will exceed last year's output according to reports already received the production in the two districts of Kavadar and Nefotin alone amounts to about 20,000 oke, or as much as the total quantity produced last year in all the territory of South Serbia. It is expected that this year's production of opium will aggregate about 150,000 kilos, or as much as before the war. This large yield is the outcome of the favourable climatic conditions which prevailed during the winter and spring; also the opium is of a better quality than last year's, having a much higher content of morphine. Although its exportation has not yet begun, and the price has not yet been fixed, it can be stated that the price will probably be lower than that quoted last year. At present small transactions are taking place at 600-650 dinars per kilo; it is undoubtedly the price will advance without, however, reaching the figure of 2,000 dinars at which it stood last year. The value of the opium available for export represents about 100-300,000,000 dinars; it will be exported abroad by firms at Salonica.

Bulgarian Otto of Rose

SOME interesting details regarding Bulgarian otto of rose have been given us by Mr. Enu Bontcheff, of Bontcheff & Kidoff, growers and distillers, Kazanlik, who is at present visiting this country. The high price of this year's otto, he pointed out, is due to the small quantity of flowers available, only 2,500,000 kilos being collected compared with a pre-war normal crop of 15,000,000 kilos. This season there were in operation 77 distilleries in Bulgaria with 277 big alembics, and as these have a normal capacity of 10,000,000 kilos it is evident that there was not enough flowers to go round. Mr. Bontcheff expressed the opinion that the present shortage in supplies of flowers may continue for two to three years until the acreage under rose cultivation increases to within measurable distance of pre-war dimensions. In 1914 the total extent of the Bulgarian rose gardens amounted to 7,200 hectares (1 hectare = 2.47 acres). In 1924, there were only 4,800 hectares, and in 1925 there was an increase, 5,200 hectares being the acreage given over to rose culture. It may be recalled that the peasant rose growers, during the war, diminished their holdings of roses in favour of tobacco and other crops. In many districts, however, the soil has been found unsuitable for tobacco, and it is in these that rose plantings are again being made, the full effects of which will not be felt until about 1928.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist's Diary," 1925, p. 289.

(From "The Trade-marks Journal," July 29, 1925.)

- "DEW CREAM"; for veterinary medicines (2). By D. E. Wilkinson, Sheridan House, High Street, Wanstead, E.11. 458,803.
- "SEETOL"; for fumigants, fertilisers, etc. (2). By A. F. Walker, 25 Bridgegate, Retford, Nottinghamshire. 459,231.
- "OMEZONE"; for insect-destroying preparations (2). By A. M. Hogarth, 52 Bedford Square, London, W.C.1. 459,521.
- "LYMPHOR," "GAMOR," "MULSOR," "NATOR," "CYTOR," "ALVOR," and "TREGOR"; for veterinary vaccines (2). By Genatosan, Ltd., 43 Regent Street, Loughborough, Leicestershire. 459,905/906/907/908/910/911/912.
- "APEX"; for medicinal chemicals (3). By Hartleys, 6 Railway Street, Nelson, Lancs. 457,476.
- "DR. BLOSSER'S REMEDY" with portrait of applicant ("Dr. Blosser's" disclaimed); for a remedy for catarrh, etc. (3). By Dr. Blosser, Ltd., 33 Temple Chambers, Temple Avenue, London, E.C.4. 457,723.
- "HARGENE"; for remedies for liver and kidney complaints and for rheumatism and gout (3). By Bengue & Co., 52 Charlotte Street, Oxford Street, London, W.1. 458,145.
- "GLANDCIBOS"; for a medicine (3). By H. C. Courtney, 15 Chestnut Road, London, S.E.27. 458,924.
- "CLENROID"; for all goods (3). By Kingsland Hygienic Co., 151 Kingsland Road, Shoreditch, London, E.2. 458,929.
- "MORISON'S PILLS"; for pills (3). By Morison & Co., Ltd., 19 Percy Circus, London, W.C.1. B 459,109.
- "OGILVIE SISTERS" facsimile signature; for medicinal chemicals (3). By Ogilvie Sisters, 505 Fifth Avenue, New York, U.S.A. 459,646. (Associated.)
- "I. C. CO. LTD." forming device; for medicinal chemicals (3) and for perfumery, etc. (48). By International Chemical Co., Ltd., 7 Wybert Street, Munster Square, London, N.W.1. 459,693. (Associated.)
- "CYLON"; for scientific instruments, etc. (8). By S. S. Bird, Sarnesfield Road, Enfield Town, Middlesex. 458,635.
- "ACQUEDENTE"; for instruments for the aid of deaf persons (11). By R. H. Dent, 95 Wigmore Street, London, W.1. 458,790. (Associated.)
- "CLARISSE WELL CUT" with device of chopper and eut bandage; for bandages, etc. (11). By J. Bury & Co., Ltd., Union Mill, Spring Hill, Accrington. 459,358.
- "LERRAFONE"; for instruments for aiding deaf persons (11). By Le Brasseur Surgical Manufacturing Co., Ltd., 90 Worcester Street, Birmingham. 457,807.
- "NOSILLA"; for photographic papers (39). By M. Allison, 2 Tower Hill, London, E.C.3. 459,596.
- "MOLASVIN"; for animal food (42). By The Molassine Co., Ltd., 82 Tunnel Avenue, East Greenwich, S.E.10. 459,509. (Associated.)
- "FRIGILLA" in device form; for essences (43). By Blackwell, Hayes & Co., Ltd., 54 Moor Street, Birmingham. 458,730.
- "VIMTO"; for flavouring essences (43). By J. N. Nichols & Co., 203 Chapel Street, Salford, Manchester. 457,821. (Associated.)
- "SILVERSILK"; for goods (47) and for perfumery, etc. (48). By R. F. White & Co., Ltd., Victoria Station House, Victoria Street, London, S.W.1. 459,613/614. (Associated.)
- "PARDOX"; for dental preparations (48). By Clay & Abraham, Ltd., 87 Bold Street, Liverpool. 457,422.
- "ÆNID"; for perfumery, etc. (48). By Seabrook & Seabrook, 8 Argyle Road, Ilford, Essex. 458,207.
- "REXALL MILK OF MAGNESIA TOOTH PASTE" on device of oarion ("Milk of Magnesia" disclaimed); for tooth paste (48). By The United Drug Co., Ltd., Waterway Street, Nottingham. 459,974. (Associated.)
- "NOVY" on oval shape; for combs and brushes for the hair, etc. (50). By A. E. Depreter, 24 Holborn, London, E.C.1. B 453,017.

(From "The Trade-marks Journal," August 5, 1925.)

- "BITUMITE"; for chemicals (1). By G. M. Callender & Co., Ltd., 25 Victoria Street, London, S.W.1. 460,159.
- Portrait of Mr. M. Vincent over monogram device; for medicinal chemicals (3). By The National Distributing and Advertising Co., Ltd., 66 Avenue Chambers, 4 Vernon Place, Southampton Row, London, W.C.1. 457,488.
- "MERCURINHAL"; for medicinal chemicals (3). By C. Engelbreth, Norrebrogade 32, Copenhagen, Denmark. 457,707.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

The Prosperity of Pharmacies

SIR,—Much has been written during the last few weeks in the *C. & D.* relating to the depression observed in the trade, and it would be of interest to learn whether the reasons for bad business are of a like nature as in this country. The pharmacy, in Hungary, as the saying goes, is a gold-mine. This assumption, however, has lost all justification since the war, and for the majority of pharmacists it is nowadays hard lines to keep up their former fine show. Among the reasons for the decline in profits may be mentioned, in the first place, the heavy taxation of the population, especially of owners of pharmacies. Another cause is the increasing number of new pharmacies within the last two years. In the next place, we have the fact that Hungarian pharmacists are, to a large extent, dependent upon supplies by the German industry, which is almost without any competition. Permit me to say that Hungary, this excellent field for British trade, is unfortunately thoroughly neglected by British manufacturers. It would be, therefore, obviously desirable for both countries to enter into closer relations with one another.—Yours very truly,

DENNIS BARÁT.

Budapest.

United States Measures

SIR,—In your review of new books (*C. & D.*, April 25, p. 604), under the title "Garnsey C.E.," you say:—"It must be remembered that the United States pint contains 16 oz. and that the gallon is proportionately smaller than ours," but you do not call attention to the fact that the American ounce is larger than ours. Remington's "Practice of Pharmacy" (6th edition), p. 44, gives the following:—

The imperial fluid ounce contains the same number of grains as the avoirdupois ounce (437.5), which is 18.2 grains less than that of the U.S. fluid ounce of water at the same temperature (455.7). Although this difference may be considered trifling in one fluid ounce, it is not so when multiplied by four or eight, and this is one serious objection to the use of the English graduated measures in the United States, because they indicate imperial fluid ounces instead of U.S. fluid ounces.

Importers in Australia and New Zealand have found that the Customs Department treat the American pint as 5/6ths of an Imperial pint instead of 4/5ths.

Yours truly

Sydney.

G. F. B. (7/7).

The Apathy of Pharmacists

SIR,—Mr. Maurice Jones's criticism of "The Penny Tickets," in the light of the letter you insert from the gentleman in question, does not amount to a serious complaint; but the facts which he states in the rest of his letter are agreed to by a very great number of chemists. It is this lack of co-operation that counts against us, and it is because we are so apathetic that the wholesalers concerned can play us one against the other. The question is, what and where is the remedy? Can Mr. Jones explain his method of rectifying this matter more fully and convincingly? . . . The matter merits the fullest discussion.—Yours, etc.,

S. H. ELLIS.

Abergavenny.

Subscribers' Symposium

For interchange of opinion among "*C. & D.*" readers and brief notes on business and practical topics.

"Spirits of Jack"

G. J. (4/8) asks "What is supplied for spirits of jack which is asked for along with sweet spirit of nitre and steel drops for kidney trouble?" We should think spirit of juniper is intended, but we have not met with the synonym "spirits of jack" before.

A Hot Weather Precaution

The note by "Abel Scholar" (*C. & D.*, August 8, p. 233) on the behaviour of liq. ammon. fort. during the hot weather reminds me of my experiences with this chemical in a much warmer climate than this; the trouble was nearly always present. On one occasion a native dispenser, disregarding my warning, received a dose of liq. ammon. fort. right up the nostrils, and in consequence had three weeks in hospital. Another trouble was experienced with syphons, which, although stored in the coolest place available, seemed to have fits of bursting; sometimes they would go for weeks without accident, and then, when working in the dispensary, one would hear a bang and know that a syphon had gone off. Curiously enough, the complaint seemed to be catching.—*Amoh* (11/8).

Gregory's Powder

The observations with regard to Gregory's powder which appear in the Birmingham city analyst's quarterly report, recently referred to in your news from that city (*C. & D.*, August 8, p. 202), seem to suggest the desirability of the adoption by the British Pharmacopœia of some test or tests by which the genuineness or otherwise of the preparation could be ascertained. It hardly seems fair that the public analyst should set up a standard for himself and judge of the preparations sold according to his self-set standard. Can an aqueous extract of the Gregory's powder be accepted as any criterion of its purity? On his own figures, it seems very doubtful. Rhubarb and ginger are very variable drugs, and the same may in a less degree be said of calcined magnesia. Moreover, it would depend on how the solubility test was made, and especially if the water was free or otherwise from carbon dioxide, as also on the presence of iron, lime or alumina in the magnesia. It would seem to be desirable to divide the ash of the aqueous extract into soluble and insoluble.—*Felix Felis* (11/8).

Legal Queries

S. A. W. (17/8).—The Board of Customs and Excise has not hitherto, so far as we are aware, sanctioned the use of industrial spirit in the manufacture of perfumes.

Condurango (17/8).—Entire drugs recommended for ailments may be sold unstamped in Great Britain by qualified persons and by persons holding a medicine-licence.

S. H. M. (20/7).—Colchicum preparations are poisons within the meaning of Part II of the Poisons Schedule. They must be labelled "Poison," with the name and address of the seller, and on and after January 1, 1926, with the proportion which the poison bears to the other ingredients.

D. D. A. (10/8).—The authority for ordering and keeping the cocaine eye-drops for factory use must be definitely specified. The borough engineer would be a suitable person if he were authorised by the town clerk to take charge for his department. In the case you mention the town clerk is in a similar position to the secretary of a company.

W. W. (18/8) recently received with a consignment of goods a parcel of articles that he had not ordered. He wrote to the suppliers, who admitted their mistake and apologised. Some time later he returned the goods to the suppliers and received a credit note for their value; but in the meantime the suppliers had issued a County Court summons against "W. W." for the price of the goods. What should he do? [It appears that the summons was issued by mistake, since the suppliers have not only admitted that the goods were not ordered, but have also accepted them back. We advise "W. W." to write to his suppliers drawing their attention to the error and pointing out that if they do not withdraw the summons he will claim, at the hearing, his expenses of attending Court. Needless to say, if the summons is not withdrawn, "W. W." must defend the action, and produce the letter and credit note that he received from the suppliers. He can then ask the judge for his expenses and compensation for loss of time.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

A. B. H. (29/6).—ASSISTANT'S SALARY.—The average salary for an unqualified is somewhat less than for a qualified man, varying by from 10s. to 30s. weekly. In the case you mention your assistant, with the experience you give, would be worth to another chemist within 10s. of that of a qualified man, say, 90s. weekly. It is difficult to lay down finality on the point, because one must consider the value of replacement, when you would succeed quite easily at 80s. weekly, but the question of efficient replacement is one that only the chemist on the spot can determine. If the turnover and service justify an advance it is well worth something extra for the sake of continuity and goodwill in service, though one must be extremely careful not to be pushed too far by this sentiment and overburden the business.

B. C. (29/6).—JOINT EVIL IN FOALS.—Joint ill, navel ill, or pyramic septicæmia, is one of the numerous forms of streptococcus septicæmia which generally accompanies and succeeds an open or porous umbilicus cord or urachus. Since the introduction of anti-streptococcus serum the treatment is both preventive and curative. The prophylactic method is by injecting the serum hypodermically into the mare ten days previous to date of foaling, and again two or three days previous to the event. When the foal is born the urachus should be painted with tr. iodi several times daily for a few days, and if requiring ligaturing the ligature should be thoroughly antiseptic. The foal should also be injected hypodermically twenty-four to forty-eight hours after birth, and again eight or nine days afterwards. Like many other diseases, this disease was looked upon as incurable, but the serum treatment has reduced the mortality to a minimum, and the disease is not now looked upon with such awe and fear as in the past.

E. & F. (29/6).—AGRI-HORTICULTURAL FORMULARY.—The *C. & D. Diary*, 1910, contained the most complete formulary for modern agri-horticultural preparations from a chemist's point of view. So far as we are aware, there has not since been published any other book covering the ground.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," August 15, 1875

Lycopodium Trituration

(From a paper by Mr. I. C. Thompson before the Homœopathic Pharmaceutical Society.)

Subsequently, I have been at some pains to practically ascertain if it be possible to prepare a *proper* 1 x trituration of lycopodium. It is not to be attained by making it according to the allotted time in the Pharmacopœia; but I find that if a small quantity (not more than 500 grains) be very well triturated for two hours, the 1 x trituration so prepared will, on microscopic examination with the one-fifth objective, show all the sporules to be thoroughly crushed. The first centesimal and higher triturations made up from this will be found to be intimately mixed, and minute subdivision completely accomplished. It thus becomes evident that a very considerable amount of trituration is essential in order to thoroughly break the outer cuticle of the lycopodium sporules, and so to free the inside contents; the trituration form, therefore, certainly appears to be the best method of preparing and administering the drug in its lower attenuations. If made at all as a strong tincture, the previous experiments conclusively show that ether and not alcohol should be the vehicle used. In this series of experiments I have merely endeavoured to make good a theory that will reconcile opposite statements respecting the therapeutic value of a particular substance. In so doing I would not be so presumptuous as to say that in no case will the lycopodium sporules, if taken in their ordinary form, affect the system either curatively or otherwise. This lies within the province of the medical practitioner to determine, and exactly opposite statements on the point have been made, the allopaths, as before stated, being satisfied in discarding lycopodium altogether from their Pharmacopœia as worthless.



[Commenced C. & D., July 5, 1924]

Commercial Correspondence.—The first condition of commercial correspondence is to have a system of filing, inward and outward. Methods vary according to the size of the business. In large ones it is part of the organisation: inward letters are opened by the responsible person and sent to the required destination, and a record kept of their dispatch. They should be filed and indexed under the sender's name. In outward correspondence the plan is again filing, and indexing and cross referencing, either under the name of the intended recipient or under transactions. The form is usually a carbon copy duplicate made on the typewriter. A similar method may be adapted to the small business; and if proper records were kept of all correspondence, it would mean saving money ultimately, as things are easily forgotten in the stress of work. The form of correspondence often leaves much to be desired. A modern method consists of numerous paragraphs, rather than the old method of one paragraph one subject. If the former method is well handled, it is effective; but frequently it is so badly done as to present a very disjointed effort to the recipient. It is better to be terse in making offers or replies rather than accentuate verbosity by numerous paragraphs. A letter should present everything in the main body and avoid postscripts. In substance it should be clear, concise and accurate. The ordinary courtesy of social life should be shown in commercial correspondence.

Commission.—This term is frequently used in pharmacy in connection with the salaries or wages of managers of branch businesses. Sometimes it is confined to particular lines, at others, it extends to the turnover, usually on the profit earned. Commercial travellers are often paid on a commission basis, which generally takes one of the following forms:—(1) Commission on total sales; (2) small salary and commission on total sales; (3) salary and commission on sales exceeding an agreed amount. See Wage Systems.

Commission on Profits, Calculating.—See Wages and Salaries.

Common Informer.—A common informer is one who takes legal proceedings for the recovery of a penalty for an offence, committed by another person, under a statute which provides that the whole or part of the penalty for the offence shall go to the informer. The term is also applied to a person who lays an information upon which criminal proceedings are taken for an offence which concerns the public at large.

Companies Registration.—Every limited company requires to be registered, and only comes into legal existence on registration. **Public Companies.**—Registration is obtained on application to the Registrar of Public Companies for that part of the United Kingdom in which the company's office is situate. The applicant has to pay fees graduated according to the capital of the company, and must deliver the following documents duly stamped where necessary:—(1) The Memorandum of Association, signed by seven subscribers, whose signatures require to be attested by a witness. The memorandum must bear a 10s. deed stamp. (2) The Articles of Association. These are required in the case of every company limited by guarantee or unlimited company. Where the company is limited by shares the delivery of Articles is optional. A 10s. deed stamp is also required for this. (3) A statutory declaration made by the solicitor engaged in forming the company or by a director or secretary of the company that the requirements of the law as to registration have been complied

with. This is stamped with a 5s. stamp on registration. (4) A list of the names and addresses of persons who have consented to act as directors; but this is not required if the prospectus is to be issued more than one year from the date of commencing business. Where no list is given, a form has to be filled up and delivered, stating the reason why. The list, or form, as the case may be, is stamped with a 5s. stamp on registration. (5) The consent of those named in the list to act as directors. And, although a certificate of incorporation is issued, a public company is not entitled to commence business until a certificate to commence has been granted after particulars as to capital issued and paid up and as to directors' qualifications having been fulfilled and a prospectus or a statement in lieu of prospectus have been deposited with the Registrar. In the case of a private company, only the Memorandum and Articles and the statutory declaration that the requirements of the Act as to registration have been complied with need be filed. When this is done and the necessary fees have been paid, the certificate of registration is granted, and the private company may commence to do business. In the case of all companies, whether public or private, the Companies (Particulars of Directors) Act, 1917, requires that there shall be filed with the Registrar, Somerset House, W.C.2, within one calendar month of registration a form giving particulars of the directors, including anyone under whose directions the directors act.

Company as Legal "Person."—A company is a distinct legal entity quite separate from the members who from time to time compose it. This is so even in the case of a "one-man" company, in which the great bulk of the shares are held by one man and the other shares are held in trust for him, and he has sole control of its business as governing director. The property of the company does not belong to the members, their rights merely being to receive from the company their share of the profits, or, on a winding up, their share of the surplus assets of the company. The contracts of the company are its own, and a shareholder cannot sue on them. On the other hand, the only liability of a shareholder is to pay any calls due on his shares and duly made on him. This is in contrast with an ordinary partnership, in which each partner is personally responsible for all the debts of the firm. It is expressly laid down that where the word "person" is used in an Act of Parliament, this is to include an incorporated company, unless the context shows that only an ordinary individual is intended. Thus, although a company may be fined for contempt of court or for an offence under the Shops Acts, there are certain offences, such as treason and felony, of which it is incapable of being guilty. And a company is not a person for the purpose of claiming the personal allowance under the Income Tax Act. There is also a fundamental limitation on its capacity to act defined by the powers given under its memorandum of association. If the memorandum does not give it any particular power, this power must, generally speaking, be taken not to exist; although if there is no express prohibition of the exercise of the power, it may be exercised if it is properly incidental to the conduct of the company's business.

Company Law (Acts of Parliament).—The principal Act, which consolidated the previous law on the subject, is the Companies (Consolidation) Act, 1908 (8 Edw. VII, chap. 69). Since that date there have been passed: the Companies Act, 1913 (3 and 4 Geo. V, chap. 25), dealing with private companies; the Companies (Foreign Interests) Act, 1917 (7 and 8 Geo. V, chap. 18); and the Companies (Particulars as to Directors) Act, 1917 (7 and 8 Geo. V, chap. 28). Besides the ordinary joint stock company to which the Act of 1908 applies, there are: (1) Companies incorporated under special Acts for the purpose of carrying out some undertaking, e.g., railway. Unless expressly varied or accepted by the special Act, or for some reason inapplicable the provisions of the Companies Clauses Consolidation Act, 1845 (9 and 10 Vict., chap. 16) apply to these. (2) Chartered companies incorporated by charter from the Crown. The general Act applicable to these is the Chartered Companies Act, 1837 (7 Wm. IV and 1 Vict., chap. 73). (3) Insurance companies. The general Act governing these

The C.&D. Commercial Compendium

is the Assurance Companies Act, 1909 (9 Edw. VII, chap. 49). (4) Banking companies. These are in general outside the Act of 1908, being incorporated by special Act or by charter from the Crown. The principal Acts dealing with banks are the Joint Stock Banks Act, 1844 (7 and 8 Vict., chap. 113), and the Joint Stock Banking Companies Act, 1857 (20 and 21 Vict., chap. 49). There are also some types of unregistered company, the most important of which are those formed for the purpose of working mines in the stannaries of Devon and Cornwall. The Acts governing these are the Stannaries Act, 1869 (32 and 33 Vict., chap. 19), and the Stannaries Act, 1887 (50 and 51 Vict., chap. 43).

Compounding a Felony.—To compound a felony is to agree in consideration of the payment of a sum of money of the return of stolen goods, or of some other advantage, not to prosecute a person who has committed a felony. The offence of compounding is a misdemeanour punishable at quarter sessions by a fine or imprisonment. It is not an offence merely to refrain from prosecuting a felon.

Compounding of Duty-paid Spirits.—The compounding of spirits is susceptible of more than one meaning, and some forms of compounding have special reference to chemists and druggists. In general, the compounding of spirits for the production for sale of any preparations intended for use as intoxicating beverages can only be carried out by a person who holds a compounder's or rectifier's Excise licence, which costs £10 annually. Such are the drinks known as cherry brandy, sloe gin, rum shrub or the like. If the compounder keeps a still for the making of spirituous beverages he is classed as a rectifier, and his premises and operations are subject to close Excise surveillance. A compounder's licence must also be held by anyone who wishes to export "tinctures" either from a duty-free warehouse or on drawback direct from his premises. These tinctures, which are defined to include medicinal spirits, flavouring essences, perfumed spirits, toilet vinegars and waters, hair washes, dentifrices, and brilliantines, must have been made by the compounder from spirits upon which duty had been paid, or in a duty-free warehouse with the permission of the Commissioners of Customs and Excise. A manufacturing chemist who is a compounder may also deposit in warehouse on drawback tinctures for exportation. In all cases maximum and minimum quantities are fixed for the consignments of the various compounds to be exported. The Commissioners, however, do not insist upon a compounder's licence being held by a wholesale or retail chemist compounding for sale perfumed spirits and medicines prepared according to the formulas of some recognised pharmacopœia or to the making by him of flavouring essences to be used in the manufacture of what are considered as non-alcoholic drinks by aerated-water makers. The class of essences known as wine essences may be made by anyone without a compounder's licence if they contain the requisite percentage of vegetable acid. This must be not less than the percentage of proof spirit contained in the mixture. An anomalous instance of compounding duty-paid spirits occurs when the spirits are used under regulations in making what are recognised by the Commissioners as medical preparations. In the case of spirits so used the spirit duty in excess of 14s. 9d. the proof gallon is repaid on them; and on deposit of such medicated articles in a duty-free warehouse for exportation or use as ships' stores drawback is paid of the remaining duty of 14s. 9d., together with any additional immature spirits duty paid on the spirits used in their manufacture. No compounder's licence is required to be taken out to make the articles, but one must be held to enable the drawback on deposit for exportation to be obtained.

Concrete is a mixture by volume of hydraulic cement 1 part, sand 2 parts, and "aggregate" (consisting of small gravel or other suitable ballast) 4 parts. The sand and cement are mixed together and wetted with water before mixing the whole to a suitable consistency for

placing *in situ* for setting. Concrete as an artificial stone is finding an ever-extending use as strong and cheap building material, especially when strengthened with iron rods or iron meshwork embedded therein. The chief hydraulic cement is Portland cement, which is made by calcining equal parts of clay or Medway river mud (mainly clay) with limestone (calcium carbonate) in a rotary kiln. Carbon dioxide is expelled, and silicates and aluminates of calcium are formed (such as 3CaO , SiO_2 , and 3CaO , Al_2O_3). The setting of concrete is due to formation of hydrated silicates by absorption of water, and sufficient time must be given for these to crystallise and "set." Disturbance and frost in particular are inimical to formation of sound concrete. The name "hydraulic cement" indicates a type of mortar which resists the action of water.

Condiments, a generic term applied to sauces, pickles and other forms of seasoning used as a relish with meat. The name is ordinarily confined to sauces popularised by advertisement, with tomatoes as a basis of thick sauces, or mushroom ketchup as a distinctive characteristic of older types. The term is often applied to the tasty or pungent ingredients also, which may include salt, celery salt, pepper, cayenne, vinegar, mustard, garlic, shallots, anchovies, soy, walnuts, pimento, horseradish, and curry. The flavouring ingredients (cloves, mace, cinnamon, etc.) are classed as spices. The *C. & D.* "Pharmaceutical Formulas" comprise the widest selection of recipes for sauces, relishes and other condiments. Pickles contain preserved vegetables, notably piccalilli (cauliflower) and onions, as well as vinegary condiment. The newer type of olive oil and egg emulsions known as salad dressings and egg mayonnaise are on the border-line of condiments.

Condurango.—This bark is usually attributed to *Goniolobus Condurango*, Triana, but the name adopted in the "Index Kewensis" is *Marsdenia Condurango*, Nicholson, which is also the name used in the German Pharmacopœia, although not recognised in the B.P. Codex. The bark was at first introduced as a remedy for cancer, but ultimately was found to act well as a gastric sedative, and is used on the Continent for gastric troubles in the form of condurango wine. The plant is a native of Ecuador, and belongs to the nat. ord. *Asclepiadacea*. It occurs in short quilled pieces about 2.3 in. (50-70 mm.) long or more, $\frac{1}{2}$ - $\frac{3}{4}$ in. (12-20 mm.) broad, and $\frac{1}{8}$ in. (3 mm.) thick. Externally the bark is yellowish-grey and exhibits numerous small granular masses of stone cells, and towards the outer surface a few projecting fibres are noticeable. Under the microscope single prismatic crystals are seen in the phloem cells, abundance of cluster crystals in the parenchyma, and variable sclerenchymatous cells, also abundance of starch. Laticiferous vessels are present, and the medullary rays are seen to consist of a single row of cells. It contains one or more glucosides, the name conduragin being applied to this mixture. One constituent of this is soluble in cold water, is the most toxic, and possesses the remarkable property of coagulating like albumen when its aqueous solutions are boiled, but the coagulum redissolves on cooling. Consequently decoctions of condurango should only be strained when cold. Conduragin has been supposed to be identical with vincetoxin. The dose of condurango bark is 15 to 60 grains.

Confectioners' Requirements.—Flavouring essences and harmless colouring matters are the chief requirements of the manufacturing confectioner from the chemist. A list of harmless artificial colouring matters was given in the Compendium (*C. & D.*, September 20, 1924, p. 438). These colours are not only harmless in themselves, but, owing to the process of manufacture, are not liable to mineral contamination. The manufacture of medicated candies sometimes brings from the confectioner requests for horehound decoction, and peppermint and anise oils. Cream of tartar is required in several articles made by confectioners.

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AUGUST 22, 1925.

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5.—LONDON, S.E.—Family Retail and Dispensing Business, with Kodak Agency;—returns, £2,250, at good prices; large double-fronted shop, well fitted and stocked; good house of 8 rooms, bath (h. & c.), garden; very low rental; held on lease; price, £1,500.

6.—LONDON, E.—Cash Retail, with large N.H.I.; established 30 years; returns approach £2,700; net profit at least £600; double-fronted corner shop; heavily stocked; good house available, with private entrance; moderate rent; favourable lease; price, £1,250; a very sound investment.

7.—YORKS.—Middle- and Working-class Retail, with about 1,000 N.H.I. Prescriptions monthly; returns about £2,000; net profit, £8 to £9 weekly; books audited; stock and fixtures approximately £750; rent, £28; price for quick sale, £900.

8.—SOUTH-EAST COAST TOWN.—Good middle-class Family Retail Business, with Kodak Agency; excellent opening for Optical; established about 50 years; returns last year, £3,013; this year will be about £3,100, with a net profit of £800

approximately; double-fronted shop, with unique modern front; the Pharmacy is well fitted and stocked; ample living accommodation; private entrance; new lease will be granted; no new opposition; price, £2,900; banker's reference.

9.—KENT.—Old-established Business for disposal on account of mental breakdown of proprietor; returns were £1,100; present rate less; stock and fixtures estimated to be worth £300; house has 6 rooms, kitchen; rent £40; 10 years' lease; unopposed; no reasonable offer refused.

10.—SHEFFIELD.—Cash Retail Business, on main tram route; returns, £20 weekly, plus 100 N.H.I. scripts; vendor estimates value of stock at £350; six-roomed house; rent, £67; price, £650.

11.—BRIGHTON.—Cash Drug Stores, with excellent opening for N.H.I. and Photographic; returns about £10 to £12 weekly; single-fronted shop, new front; modern fittings and good working stock; lock-up Pharmacy; new lease will be granted; in order to effect a speedy transfer vendor will accept a reasonable cash offer or small premium, plus the value of the stock and fixtures.

12.—SOUTH COAST (Large Town).—Retail and Dispensing Business, with Ucal and Kodak Agencies; for disposal on account of bad nervous breakdown; returns average £3,600 per annum, at usual prices; new lease will be granted at a fair rental, or property may be purchased; part of the purchase money could remain; further details on application.

13.—NORFOLK.—For disposal on account of domestic reasons, genuine business; General Retail with Fancy Goods; present hands 25 years; returns average about £50 weekly, at good prices; double-fronted shop, very well stocked; excellent house and garden; garage; one other chemist in town; new lease; price, £1,600, or valuation terms entertained.

14.—PEAK DISTRICT (Very Desirable Town).—Family Retail, Dispensing and Photographic; established 1890; returns approach £2,300; gross profit, £900; double-fronted shop, 24 ft. x 18 ft.; fine mahogany fittings, with mirrors at back of shelves; stock estimated by vendor at £1,000; lock-up Pharmacy; 13½ years' lease; the premises occupy an excellent position; terms, lease and goodwill, £300, plus value of stock and fixtures, in all about £1,750.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

Valuations for Stocktaking

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such service.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

The Association of Mnfg. Chemists

— LIMITED —

BUSINESS AGENCY TRANSFER
AND VALUATION DEPARTMENT

Head Offices—Kimberley House, Holborn Viaduct,
London, E.C.1 (and at 2 Bixteth Street, Liverpool)

PARKIN S. BOOTH, Accountant and Valuer

(TELEPHONE:—CITY 1261-2-3)

BUSINESSES FOR DISPOSAL.

1.—LONDON, S.E.—Entire Stock, Fixtures, Fittings and Utensils in trade of Chemist and Druggist's business for immediate disposal. Full particulars on application.

2.—KENT.—Very old-established, high-class Retail and Dispensing Business; premises consist of large shop, convenient dwelling accommodation; shop well fitted in mahogany; situated in principal shopping thoroughfare of town; premises held on valuable lease, 31 years to run at £120 per annum; good stock carried; returns for three years to 1924 average approximately £3,420; could be considerably increased with personal supervision. Full particulars on application.

3.—MEDICAL HOSIERY BUSINESS.—Partner required, lady or gentleman; preferably one already connected with wholesale surgical belt and appliance business; investment required £1,000. Full particulars on application.

4.—SOMERSET.—Old-established Business, in country town; returns, £22 p.w.; 7 years' lease, at £40 p.a.; lock-up double-fronted shop; price £1,200, or offer. (144)

5.—8. DEVON.—Good-class ready-money Business in important town; returns, £30 p.w.; Kodak, N.H.I., etc.; double-fronted shop, with 8-roomed house; price, including freehold property, £2,600. (134)

6.—SOUTH DEVON.—Very old-established Business in residential district of busy town; returns, £34 p.w.; rent, £90; lease to be arranged; double-fronted, well-fitted shop and house with 7 rooms; side entrance, store, etc.; price £1,450. (154)

7.—DEWSBURY.—Situated in best position, Retail Chemist's and Druggist's Business; premises consist of shop and two large store rooms above; held on lease, 6½ years to run; rental, £160 per annum; rates, £45 per annum; present turnover, £20-£35 per week; can be considerably increased, there being good scope for energetic man; stock at cost, about £800; fixtures and fittings, £100. Further particulars on application.

8.—SOUTH COAST (Health Resort).—Good-class Chemist and Druggist, in best part of the town; new building; attractive shop fitted in oak; returns, about £35 p.w.; Kodak, N.H.I., etc.; dwelling accommodation with separate entrance. Price £1,500—property could be acquired. Fuller particulars on application. (125)

9.—LONDON, W.1.—Good Dispensing Business in populous suburb; 8 years' lease at £150 inclusive per annum; price for goodwill, fixtures and fittings £400, or near offer; stock at valuation, or, if preferred, stock can be removed. (114)

10.—YORKS.—Cash Business, in main road, in important industrial town; 5 years' lease will be granted at £90 to £120 per annum; returns, £30 per week; Kodak Agency; dwelling accommodation; price, goodwill, £450; stock, fixtures at valuation.

11.—CHESHIRE (Small Market Town).—Retail Chemist and Druggist's; established 26 years; 9 years' lease at £28 per annum; returns, £25 per week; large lock-up shop with ample storage accommodation; every convenience. Fuller particulars on application.

12.—CORNWALL.—Cash Retail and Dispensing Business; nicely fitted and well stocked; premises held on lease, expiring March, 1928, at £50 p.a.; sub-let £15 p.a.; returns £1,700; scope for increase. Full particulars on application.

13.—LONDON, S.W.—Family Retail High-class Dispensing Business; well fitted and good stock carried; established 30 years; premises consist of lock-up shop, held on lease 14 years at £80 per annum; last year's returns, £2,500; scope for increase. Full particulars on application.

14.—CHESHIRE.—Old-established Cash Retail Pharmacy, with Wine and Spirit Licence. Double-fronted Corner Shop, with good dwelling accommodation; held on lease, 7½ years unexpired, at £100 per annum. Returns £1,100 per annum. Scope for considerable increase. Full particulars on application.

15.—SOUTH COAST RESORT.—Cash Retail and Dispensing Business, situated on main road; premises consist of large lock-up shop, held on lease, 19 years to run at £170 per annum; handsomely fitted and good, saleable stock carried; returns, £2,000; scope for increase; price, £2,000 or near offer. Full particulars on application.

16.—BUCKS.—Cash Retail Business, recently established; lock-up shop premises, situated on main road; nearest opposition 3 miles; held on tenancy agreement at 8s. per week; returns average £19 per week; excellent scope. Full particulars on application.

17.—NEAR LEEDS.—Retail Cash Dispensing Business; single fronted; well-fitted lock-up shop; one mile from Leeds; working-class district; rent £28; lease would be granted; established 12 years; no opposition; returns £1,905; price £985. Fuller particulars on application.

STOCKTAKING.—Do you realize the importance of knowing the true value of your stocks, and thus being able to arrive at a net working profit? We undertake this work for an inclusive fee at short notice. Write for terms.

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WILLIAM S. FISH.

VALUERS AND TRANSFER AGENTS,

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(One minute from St. Pancras and King's Cross Stations.)

1.—HAMPSHIRE COAST.—Good Middle-class Retail and Dispensing Business, in rapidly growing district; returns, £1,200; excellent profits, plenty of scope; good house; modern pharmacy, fully stocked; price, £950, or £500 and valuation.

2.—NORFOLK.—Sound, Old-established Mixed Country Retail, in small market town; returns, £2,650; net profit, £500; large handsome pharmacy, and excellent house, garage and garden, etc.; price, about £1,650; valuation terms arranged.

3.—MIDLANDS (HEALTH RESORT).—High-class Dispensing Business, in very best position; returns, over £2,250; beautifully fitted pharmacy, fully stocked, on lease at low rental; price, about £1,600, or £300 and valuation.

4.—WESTCLIFF-ON-SEA (Near).—Good-class Retail and Dispensing Business, in rising seaside town; returns, over £30 a week, increasing; fine opening for Photographic; large shop, prominent position; price, £800, or near offer.

5.—SOUTHAMPTON (Near).—Very profitable Light Cash, Retail, with N.H.I., in rapidly growing part of busy town; returns, £800; plenty of scope; low rent; long lease; selling through illness; price £700, or offer.

6.—SHEFFIELD (Near).—Light middle-class Cash Retail with Kodak Agency; returns, £1,800; books audited; large shop, good house attached; price for business and property, £950 down and balance by easy instalments.

7.—LONDON, S.E.—Brisk Cash Drug Stores, in main road position; returns, £1,700; net profit, £600; opening for N.H.I.; large shop, well fitted and stocked; price, £1,250; personally recommended.

8.—LONDON, S.W. (Good Residential Suburb).—First-class light suburban Retail, in splendid main road position; returns, £3,500, will do £5,000; handsome modern Pharmacy; every convenience; heavily stocked; price, £2,750.

9.—NORTH LONDON.—Very profitable Light Cash Retail, in main road position; returns last year, £1,620; net profit, £566; good house, low rent, fully stocked; price, £1,400 or offer; personally inspected and recommended.

STOCKTAKING VALUATIONS.

We are now booking dates for August and September, and invite early correspondence. Terms on application.

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Valuer, Transfer Agent & Expert Stocktaker

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Urgently required, Sound Concerns. Genuine cash buyers waiting, £400 to £4,000.

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BUSINESSES TRANSFERRED

on unusually favourable terms, Stocks taken by experienced assistant, Balance Sheets drawn up. THIS WEEK'S BARGAIN—a Manchester Pharmacy for £350 (lock up), total expenses, £40 p.a.

A. BERNARD SLACK, 15 Christ Church Avenue,
West Didsbury, MANCHESTER.

PREMISES TO LET.

CHEMISTS.—Grand opening for a high-class Dispensing Chemist in handsome parade of new shops, busy main road position, at Golders Green, where multiple traders are establishing themselves; large, popular and rapidly-growing residential district where immediate success is assured; fine shop frontage, 19 ft. by depth of 52 ft., residential flat over; contribution towards fitting front will be made by owners to ensure good style; an exceptional opportunity for an ambitious firm or private individual; to be let on lease. Apply Sole Agents, Leslie Raymond, F.S.I., F.A.I., The Estate Offices, Golders Green, N.W.11.

SHOP AND HOUSE TO LET.—Brighton. House and Shop to Let, snit Chemist or Druggist for Wholesale or Retail; entrance to house at side of shop; new shop front, and premises redecored throughout; main position in Queen's Road, seven doors from Brighton Central Station; lease 7, 14, 21 years; moderate rent; no premium; populous neighborhood. Apply A. H. King, 8 Clarence Square, Brighton. Phone: Brighton 4569.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—For Sale, a genuine Chemist's Business, in busy central thoroughfare; owner retiring. All particulars may be had from John Shelley, Exeter House, Wolverhampton. This is an opportunity very seldom met with. 51/27, Office of this Paper.

CHESHIRE.—Sound established Business; Wine Licence without restriction; rent small; price asked value of stock and fixtures only; valuable goodwill handed over free. Full details, Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

CO. DURHAM.—Business for Sale; average takings £30 weekly; terms on application. Apply 70/322, Office of this Paper.

DURHAM COUNTY.—Old-established Business for Sale, in good position; over £3,000 per annum; N.H.I. £400; lease; firm offer considered; good introduction given to purchaser, or Partnership proposition entertained. 50/23, Office of this Paper.

DUNKELD, PERTSHIRE.—For Sale by private bargain, old-established Chemist's Business Premises, house and two shops, situated next Post Office, on main thoroughfare; successful business has been carried on here; opportunity for man with good-class experience. For further particulars apply to G. W. Hall, Chemist, 20 Market Square, Stonehaven.

LANCASHIRE.—Business and Premises for Sale at Earlestown; large double-fronted corner Shop, well fitted mahogany, cellared; returns about £1,500, excluding N.H.I., average 870 monthly for this year up to July 1; good living-rooms behind, bath, hot and cold water up and down; vacant possession on completion; price £1,800, or £1,200 cash and balance on mortgage, or nearest offer for quick sale; retiring reason for selling. Knowles, Chemist, Earlestown, Lancs.

LINCS.—Genuine unopposed Village Business, returning about £20 per week at good prices; could be increased; splendid opening for Photographic trade; good house, with side entrance, large garden, stable and garage; suit qualified or unqualified; low rental; goodwill, stock and fixtures about £450; a bargain. Apply 49/11, Office of this Paper.

LIVERPOOL.—65 West Derby Road for Sale. Modern corner Pharmacy, main road; fully stocked; nicely fitted; electric light; all conveniences; house attached; splendid opportunity for qualified chemist; only opened 6 months; business increasing each week; tenancy transferred to new owner; moderate weekly rent, including rates and taxes; price for everything, £675, or nearest offer; inspection invited. Further particulars at interview.

LONDON.—Genuine and profitable well-situated Cash Business for Sale; returns over £600; profitable Proprietaries; no N.H.I.; age and illness reason for quick disposal. "Shopper," 48/7, Office of this Paper.

LONDON, S.E.—Profitable Cash Retail Business, with N.H.I. Photo.; pleasantly situated; double-fronted shop, well fitted and stocked; returns £1,516, increasing, and plenty of scope for increase; 8-roomed house, bath, h.c., redecorated; long lease; very low rent; small garden; garage; excellent reasons for disposal; price £1,300. 42/1, Office of this Paper.

ROTHERHAM.—Chemist and Photographic Business for disposal; double-fronted corner Shop; situate in busy thoroughfare; showing healthy return; good living accommodation, 7 rooms, bath and private yard; mahogany fixtures. Further particulars from James Morrison, Estate Agent, 10 Figtree Lane, Sheffield.

SOUTH COAST.—Drug Store; lock-up; rent £52 per annum inclusive; lease 15 years; turnover, £15 per week; great scope for increase in qualified hands; no near opposition; good prescribing and photographic; vendor retiring; price £675 or nearest offer; includes stock £350, fixtures and fittings £150, lease £175. 50/30, Office of this Paper.

SOUTH YORKS COALFIELD.—Old-established Business; population 7,500; rapidly growing place; good Dispensing and Photographic; excellent opening for Optics; average takings last three years £3,000; lease could be arranged, or would sell property; price asked for business £2,500 for quick sale. "W. C. B.," 56 Hanover Street, Liverpool.

SUNDERLAND.—Good-class, well-established Business at Roker, Sunderland, for many years carried on by the late Mr. H. B. Halstead; property and adjoining shop included in the sale; splendid opening for energetic man; no opposition, and shop occupies best available site for business. For particulars apply to Hutton & Quenet, Solicitors, 12 John Street, Sunderland.

IMPORTANT MANUFACTURING TOWN.—Old-established Photographic Chemist, in good position; returns about £1,500; Kodak Agency; gross profit about 50 per cent.; large D. & P. connection; excellent living accommodation; ill-health sole reason for selling; every investigation courted; price about £1,400. For further particulars apply 50/33, Office of this Paper.

FOR Sale, Free State, Ireland.—Well-known and highly successful Chemist's Business, free of rent, with up-to-date shop fittings and splendid stock for Sale by Auction at the Town Hall, Macroom, Co. Cork, on Thursday, August 27, at 1 o'clock. For further particulars apply to Michael McSweeney, Auctioneer, Macroom.

FOR Sale, Surgical Business in large city, North of England, doing high-class business; principal thoroughfare; rent low; lease can be arranged; offers invited; continued ill-health of family reason for disposal. 45/17, Office of this Paper.

FOR QUICK SALE.—Chemist and Druggist Business in West Riding country town; nearest opposition five miles; house attached; health reasons for leaving; best offer for stock, fixtures and goodwill secures; cash only. Apply 49/7, Office of this Paper.

OLD-ESTABLISHED South Kensington high-class Dispensing Business; 14 years' lease; returned £2,250-£2,500; low rent and rates; price £1,200. 70/329, Office of this Paper.

MARKET TOWN (Northern County).—Recently-established Cash Business; returns already over £1,000 per annum, increasing; double-fronted shop; well fitted and stocked; good house at moderate rental; considerable scope for man with knowledge of Agricultural trade. 52/2, Office of this Paper.

AGENCIES.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A GENTLEMAN well known to and popular with Medical Profession in London, who calls on Doctors with Surgical Dressings, seeks other Agencies. Kindly write, as fully as possible, to 50/2, Office of this Paper.

A GENT, working all Ireland with good connection amongst best Chemists, is open to take up an Agency in the Perfumery, Toilet Soap or Sundries line. 49/17, Office of this Paper.

SALES Manager of English Manufacturing House of high reputation, going to reside in or near New York in November, desires Agencies of high-class British Products suitable for American market; energy, enthusiasm, and adaptability guaranteed; good opportunity offered to houses desiring reliable and efficient representation. Reply "Enterprise," 49/15, Office of this Paper.

PREMISES FOR SALE.

GOLDERS GREEN.—Newly-erected Shops with residential upper parts; price £2,750 to £3,300 each; freehold, or would be let on lease to approved traders. Apply Ernest Owens, Ltd., Golders Green, N.W.1.

FOR SALE.

BINOCULAR, Microscope, mahogany case, 1 in., 1/4 in., 1/6 in. objectives; good condition; also hand Microtome; £7 or offer; also Chemical Apparatus, Analytical Balance, Materia Medica specimens. "M.P.S.," "Maisonette," Laurel Grove, Waterloo, Lancs.

ONE Brown's Distilled Water Still in perfect condition; output 2 gallons per hour at 1d. per gallon. D. J. Phillips, Grafton Road, Earlsfield, S.W.18.

YOUNGS' Filling Machine for Sale, suitable for health salts and other similar fillings; weighs from a fraction of an ounce up to 1 lb. Apply 69/310, Office of this Paper.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ADVERTISER wishes to purchase good-class Pharmacy in London or near; with or without living accommodation; business must be a sound going concern with long lease; neglected business would also be considered; cash waiting; all particulars supplied will be treated in strictest confidence. P.C.B. 7/33, Office of this Paper.

GOOD-CLASS Business wanted by advertiser for own personal management; must stand close investigation; strictest confidence assured; references supplied; no agents; suitable premises considered. 49/8, Office of this Paper.

WANTED by September next, small Non-poisonous Cash Drug Store in healthy locality; neglected entertained if scope for increase; must bear investigation; preferably one which Prescribing and own Proprietaries, etc., could extend; 30s. bonus for advice if acted upon; small capital only available; no agents. "Available," 51/31, Office of this Paper.

WANTED shortly, a good-class Suburban or Country Business in West of England; living accommodation essential; returns about £35. Full particulars in strict confidence to "North," 50/21, Office of this Paper.

DIRECTORSHIP.

APPLICATION invited for position of Working Director in a business of Manufacturing Chemists; Pharmaceutical qualification and commercial experience necessary, together with a certain amount of capital. Reply, stating age, experience, etc., P.C.B. 6/31, Office of this Paper.

SITUATIONS OPEN.**RETAIL.****[HOME.]**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BEDFORDSHIRE.—Qualified Manager (single); vacancy will occur in early autumn; salary offered is above the average, but good Salesmanship and Window-dressing ability is essential. Give usual particulars, excluding photos and original testimonials, to "F. H. D.," 50/7, Office of this Paper.

BOURNEMOUTH (Near).—Qualified Assistant required; young man just through examination would suit; good prospects and early Managership; permanent and progressive post for good worker; state age, height, references and salary required in first letter. 51/22, Office of this Paper.

BRIXTON.—Wanted, a reliable, experienced man as Manager; must be used to quick Dispensing and keen Buying; undeniable references, business and personal; no photo or references in first letter. 70/323, Office of this Paper.

BRIGHTON.—Junior Assistant, unqualified, wanted first week in September in good-class Retail and Photographic business. Full particulars of age, height, etc., and salary required. Perress & Co., 48 East Street, Brighton.

BRIGHTON.—Smart Junior Assistant; must be quick, accurate and willing; exceptional opportunity to gain Photographic and general modern Store experience. Send photo, state salary expected and give full particulars of previous experience, "J. P.," 51/60, Office of this Paper.

BRIGHTON.—Young Qualified Assistant for quick light Retail business; knowledge of Photography and Window-dressing essential; preference given to gentleman experienced and qualified in Optics. Photo, age, height, salary and full particulars to "Radio," 51/6, Office of this Paper.

DORKING.—Locum, qualified, wanted for the Dispensing Counter for four weeks in September; must be a quick and accurate Dispenser, with good experience. State age, salary required (outdoors) and give one recent reference to F. Strawson, 12 Rose Hill, Dorking.

DROITWICH SPA.—Wanted, Assistant, need not be qualified, lady or gent., accustomed to good-class Dispensing and Retail. Please give full particulars in first letter, salary required (outdoors), age, height, experience, references, date disengaged, etc. Tilley, Chemist, Droitwich Spa.

LIVERPOOL.—Wanted immediately, qualified male Assistant for good-class business; good salary paid to a capable man. Buck's Pharmacy, 179 Bedford Street, Liverpool.

LONDON.—Junior Assistant, with Dispensing experience, wanted for good-class business latter end of September. Apply by letter, stating age, height, experience, and salary required (outdoors) to "C. B.," 20 New Street, Dorset Square, N.W.1

LONDON, S.E.—Senior Assistant required for Dispensing and Counter in a good-class Family and Dispensing business (outdoors). Apply, stating age, height, experience, salary required, and when disengaged, to 50/32, Office of this Paper.

MANCHESTER (working-class district).—Qualified lady Assistant wanted (early September) for N.H.I. Dispensing and Counter; experienced; short hours. Apply, stating age, salary required, and usual particulars first letter. 40/14, Office of this Paper.

MANCHESTER.—Capable, unqualified (male) Assistant required for end of August; permanency for reliable man; Dispensing and Photographic knowledge essential. Apply, stating experience, salary, and full details in first letter. 48/2, Office of this Paper.

MANCHESTER.—Wanted, Qualified Manager for quick Cash Retail and N.H.I. Dispensing, knowledge of Photography; permanent. Apply, stating full particulars, Latewards, Ltd., 389 Ashton New Road, Manchester.

NEAR LONDON.—Qualified Assistant, lady or gentleman, required for new branch (outdoors); assistant kept; comfortable position. Please send usual particulars to Gaylard, Station Road, Hayes, Middlesex.

ST. MARY'S HOSPITAL, W.2.

WANTED, a Junior Assistant Dispenser (male); not over 30; Minor qualification; salary £180 per annum, with luncheon and tea; hours 9 to 5, but every fourth week 9 to 7, and Sunday 3 to 5.

Applications, stating age and experience, and accompanied by not more than three testimonials, should reach the undersigned on or before Saturday, 29th August, 1925.

W. PARKES, Secretary.

SHEFFIELD.—Unqualified Assistant, about 24 years of age; Light Retail and N.H.I. Please state salary required and full particulars in first letter. 49/30, Office of this Paper.

SIDMOUTH.—Experienced, energetic Assistant wanted for good-class Dispensing business. Particulars of experience, reference, age and salary required to Hinton Lake & Son, Fore Street, Sidmouth.

SOUTH COAST.—Qualified Locum required from September 12-26; reliable man for good-class business. Full particulars to 49/9, Office of this Paper.

SOUTH WALES.—Assistant wanted early September; capable Dispenser, smart at Counter, etc.; energetic and willing; good references. State full particulars, experience, age, height, salary, etc. 70/328, Office of this Paper.

UXBRIDGE UNION.

WANTED, at the Union Hospital, Hillingdon, near Uxbridge, a part-time Dispenser, male or female; duties would occupy about 3 hours per day on 6 days per week.

Applications, stating qualifications held and salary required, to be sent to the undersigned as soon as possible.

A. R. WOODBRIDGE,

Clerk to the Guardians.

Guardians' Offices,
48 St. Andrew's, Uxbridge, Middlesex.
15th August, 1925.

WAKEFIELD (near).—Qualified Assistant wanted as Cover for small business; would suit elderly Chemist; comfortable berth for a conscientious man. Please state age and salary (which must be moderate) and when at liberty to 49/14, Office of this Paper.

WESTCLIFF-ON-SEA.—Qualified Assistant wanted early in October; good prospects. Full particulars, salary required (enclosing photo if possible), to 51/24, Office of this Paper.

WEST-END.—Wanted, really smart qualified Senior Assistant; must have had good experience and well up in Counter work. Apply Heppells, Ltd., 16 Grosvenor Place, London, S.W.

A JUNIOR Assistant required, September, good-class business, market town; energetic, methodical; used to quick Counter work; some Dispensing, Photographic, and also affords an opportunity for experience in sight testing; short hours; no Sunday or holiday work; good references essential. State salary (outdoors), age, height, and photo to Phillips, Chemist and Optician, Axminster.

ASSISTANT wanted for good-class Agricultural business, about September 1; must be of good appearance and address; possible accommodation if married; please state age, height, salary required, experience, and all other particulars. Harold Smith, Chemist, Cirencester.

CHEMIST.—Unqualified Junior wanted, aged 20 years, for Dispensary and to assist at Counter; short hours and excellent experience. Apply Staff Manager, John Barker & Co., Ltd., Kensington, W.8.

JUNIOR Assistant, within 25 miles of London, lady or gent., required chiefly to assist at Dispensing Counter. Applicant should give age, height, experience, salary required, references, and photo if possible in the first letter. 46/23, Office of this Paper.

JUNIOR Assistant for Drug Counter; middle-class business, S.E. London. Give full particulars of experience and salary required. 49/16, Office of this Paper.

JUNIOR Assistant, about 22 years of age; Scotsman preferred; comfortable and permanent berth. State when at liberty and salary required, with usual particulars. Hay Marshall, 91 West Green Road, London, N.15.

JUNIOR Assistant; unqualified; Counter, Photography and Dispensing. Full particulars to Percy B. Gray, Pharmaceutical Chemist, Rugby.

JUNIOR or Improver for good-class Retail, Dispensing and Photographic business. Please give particulars of experience, age, height, salary, etc., to "M.P.S.," 534 High Road, Goodmayes.

LADY; qualified; M.P.S.; permanent situation; good Dispenser; in Manchester Pharmacy. Write, giving full particulars and salary required. Application to be made to 50/26, Office of this Paper.

LOCUM, qualified, required from August 24 for one month, or from August 31 for fortnight; duties light; suit elderly. Full particulars and salary to Guest, Chemist, Burton-on-Trent.

MANAGER.—Young, qualified man, a good Salesman, and used to N.H.I. Dispensing; liberal remuneration to capable man. Apply, with full particulars of experience, etc., to William Shakespeare, Ltd., 26 Birmingham Street, Oldbury, Worcs.

MANAGER, qualified, required, Retail and Photographic business in Leicestershire; knowledge of Optics an advantage; good house attached. Apply, with references, age, experience, and photograph, to Lands, Chemists, Coalville, near Leicester.

MANAGER, capable of working up a neglected business; £4 per week (outdoors) and liberal commission on profits. State age, height, when disengaged, and particulars of past experience, to 51/1, Office of this Paper.

MANAGER (qualified branch); male or female; one with a knowledge of store trading preferred; Window-dresser, Photography; good prospects to an enterprising person. Apply, with full particulars, to J. E. Houseman, Director, 19/21 Pitfield Street, N.1.

PART-TIME qualified woman Dispenser; Mondays and Thursdays 2 to 7; Tuesdays and Fridays, 5 to 8; Saturdays, 10 to 11; Sundays and Wednesdays free. Applications, with salary required, details of experience, and copies of two recent testimonials, to be sent by August 31 to the Clerk, Sussex Maternity Hospital, 80 Buckingham Road, Brighton.

QUALIFIED Assistant wanted as Locum for August 31; possible permanency. Reply, stating age, height, experience and salary required, Waters, Chemist, Darlington.

QUALIFIED Assistant, to manage Branch; not over 30; working-class district, with N.H.I. and Photographic. Usual particulars, references and salary required. Lawrence, 339 Old Kent Road, S.E.1.

RELIABLE Assistant, with Counter and Dispensing experience, for good-class business; light hours; no duty; must have good address and satisfactory references. Give age, height, experience and salary required in first letter to Bernard W. Leefe, M.P.S., Pinner, Middlesex.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

REGISTERED Chemist required to undertake light duties at small branch; moderate salary. Apply "Pharmacist," 200 Wellington Street, Grimsby.

REQUIRED, a qualified man; single; outdoors; age about 24; must be capable and reliable, and accustomed to high-class Dispensing and Counter work; highest references essential. Apply by letter only, giving fullest particulars as to experience, salary required, etc., enclose photo (to be returned). Barnes & Marsh, 194 Upper Richmond Road, Putney, S.W.15.

REQUIRED, Manager, qualified, for modern business; good Window-dresser, with Photographic experience; only men with first-class references need apply. Send full particulars to 70/325, Office of this Paper.

SMART Assistant wanted for Piccadilly business; hours 1 p.m.-11 p.m. Apply, between 2 and 4 o'clock, A. Maitland & Co., 8 Torrington Place, Gordon Square, W.C.1.

SMART Junior wanted for good-class Dispensing and Photographic business; outdoors; unqualified. Apply, with full particulars, J. B. Frank & Co., 310 Brixton Hill, S.W.2.

SUPERIOR young Pharmacist wanted, having had first-class Dispensing experience; permanent and progressive position. Confidential application, if possible with photograph, "Director," Philip Harris & Co., Pharmacists, Birmingham.

UNQUALIFIED Assistant wanted, about September 1, chiefly for Dispensing. Send full particulars of previous experience, references, salary required (outdoors), and photo if possible (to be returned) to James H. Brown, 21 Market Hill, Sudbury, Suffolk.

UNQUALIFIED Assistant, resident in London, required by well-known firm as Assistant Stocktaker; permanency. State age and fullest particulars, salary required. 49/18, Office of this Paper.

UNQUALIFIED Assistant; good address and appearance; must be good Salesman and Window-dresser; healthy country district. Apply, enclosing photo, 51/13, Office of this Paper.

WANTED by September 14, a married, competent, Qualified Manager, between 34 and 38, for good-class business. Apply, stating references, etc., to 48/35, Office of this Paper.

WANTED at once, Qualified Assistant for Branch; house over shop. Apply, stating full particulars, to 22 Woolwich Road, Belvedere, Kent.

WANTED, qualified Manager for branch shop. Write, stating age, experience, and salary required, to Waller & Riley, Ltd., Bolton.

WANTED, early in September, as Manager for old-established business in West Cumberland, qualified Chemist with first-class Agricultural experience; single man preferred. Full particulars, stating salary and when disengaged. C/o Evans Sons Lescher & Webb Ltd., 56 Hanover Street, Liverpool.

WANTED, smart Assistant; outdoor; male; good Counterman, reliable and quick Dispenser, knowledge of Photography. Particulars first letter, references, height, age, salary required. Giles, Chemist, Ventnor.

WANTED, an Assistant for good-class Chemist business; single; accurate Dispenser, good Counter-hand; not necessarily qualified. Write, stating age, experience, salary required, Tirrell, Market Square, Hanley.

WANTED, immediately, qualified male Assistant to manage branch; young and energetic; no objection newly qualified; commission. State salary and date when free first letter. Jas. Wood, Ltd., Dispensing Chemists, Ilkeston, Notts.

WANTED, Qualified Manager for Chemist's Business in South Coast town. Apply, stating age, salary expected, and previous experience, to "B. W.," 51/23, Office of this Paper.

WANTED at once for a firm of Doctors in market town, reliable Dispenser, lady or gentleman, for indefinite period; easy hours, comfortable berth; outdoors. Applicants please give references, state experience, and salary required. 51/28, Office of this Paper.

WANTED, for early vacancy, Junior Assistant, in good-class Pharmacy; unqualified; outdoors; London district, 20 miles out. Full particulars and salary required to 52/4, Office of this Paper.

WANTED, Qualified Assistant; active and accurate Dispenser. Apply, stating age, experience and salary required, 51/34, Office of this Paper.

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DRUGGISTS' SUNDRIES.—Clerk required with extensive experience in Wholesale Druggists' Sundries; removal expenses paid. Mention in strict confidence age, particulars of present (or if disengaged last) situation, including precise duties, approximate wages desired. Timothy White Co., Ltd., Portsmouth.

ESTABLISHED Manufacturers of many special lines are about to appoint Representatives in London, South Coast, Wales, Lancashire, Midlands and Scotland, and invite applications from smart salesmen who are already covering these areas and require additional lines. Applications, giving details (which will be treated as absolutely confidential), to 49/27, Office of this Paper.

GENERAL Drug Trade.—Representative required for East Midlands and neighbouring district; ability to drive car; knowledge of district and first-class references essential. Apply, with full details in confidence, to 70/326, Office of this Paper.

JUBES AND PASTILLES.—First-class man wanted. Write in confidence, giving full particulars as to experience, age, wages required; permanency to right man. Wigglesworth, Ltd., Westhoughton, Lancs.

LICORICE AND MENTHOL PELLETS.—Man well up in the Manufacture of Licorice and Menthol Pellets and other Licorice Specialities. State experience, age and wages in first communication. 49/25, Office of this Paper.

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QUALIFIED Chemist wanted by London Wholesale House. Apply, giving full particulars, to P.C.B. 7/37, Office of this Paper.

REPRESENTATIVE to offer Pills and Tablets to Chemists in Lancashire and Yorkshire; small salary, part expenses and commission; good opportunity. "D. S.," 50/12, Office of this Paper.

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STOCK-KEEPER and Dispatch Clerk required by a Firm dealing in Foreign Patent Medicines and Sundries; only those with previous experience in this branch need apply; liberal salary and good prospects. 51/10, Office of this Paper.

TABLETS.—Youth with experience of Tablet Making required by provincial house; must be willing to help in other departments if required. State age, experience, and wages required. 49/26, Office of this Paper.

WELL-KNOWN Soap Manufacturers require the services of live Salesmen for North and South Wales, for the Eastern Counties, for Lincolnshire and Cheshire. Those who have connection already on the ground are invited to apply, giving full particulars in first letter. No objection to salesmen carrying other lines if non-competitive. Apply 70/313, Office of this Paper.

WELL-KNOWN firm of Tablet and Pill Makers require Representative for London area. Send full details to 70/321, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

BOMBAY.—Qualified Assistant required for first-class European business; single; age not exceed 25; good-class experience essential; splendid opportunity; passage to and from paid; three years' agreement; terms upon application; applicants should enclose copies of testimonials and photograph. "MH/Export," 70/320, Office of this Paper.

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A.A.A.—QUALIFIED Manager, married, no family, energetic; desires change; London or suburbs preferred; energetic; up-to-date in Photography, Window-dressing, and Counter; Manager present business 2½ years; would accept good salary or salary and commission on increase of turnover. Please state terms and whether living accommodation available. P.C.B. 50/36, Office of this Paper.

A.A.A.—UNQUALIFIED Assistant, quick Counter trade, stock, Dispensing, Prescribing, requires permanency. "Aspirin," 31 Groveaway, Chadwell Heath, Essex.

A CAPABLE, energetic Assistant; all-round Photographic experience, Dispensing and Window-dressing; Branch Manager 3 years; age 33; unqualified; married. "F. R. G.," 50/8, Office of this Paper.

A QUALIFIED Manager, 29, married, desires change; R.P.U. Business Certificate; keen Buyer, quick Dispenser, energetic, and well up in modern methods of salesmanship; house or rooms attached to shop; please state terms. 50/3, Office of this Paper.

A QUALIFIED Manager; tall; abstainer; 32; free shortly; Photo., Dispensing, Window-dressing; Eastern Counties preferred; house advantage. 50/22, Office of this Paper.

A N Assistant, referred Pharmacy, requires position as Dispenser for few weeks only; London preferred. Reply "Plumes," 6b Cato Road, Clapham, S.W.9.

A S Locum; disengaged from August 25 to September 2 inclusive; moderate terms; excellent references and experience. "Locum," 144 Jamaica Road, S.E.

A SSISTANT or Locum; disengaged September 14. "Aspirin," 109 Burnt Oak Road, Victoria Street, Gillingham, Kent.

A SSISTANT (referred Materia Medica) desires situation in London; excellent references; age 23. Frampton, 24 Elthorne Park Road, Hanwell, W.7.

A SSISTANT, unqualified, seeks whole or part-time situation; Counter and Dispensing. "S. L.," 12 Edgeley Road, Clapham, S.W.

A SSISTANT; unqualified; 26; willing and hard worker; disengaged mid-September; go anywhere. 50/24, Office of this Paper.

A SSISTANT (35, unqualified), up-to-date experience all branches, Photographic, etc., keen Window-dresser, brisk Counter; not afraid of work; eight years last two situations; would manage Stores, London or Suburbs. 51/40, Office of this Paper.

A T liberty early September, Assistant; unqualified; abstainer; ex-Service (disabled leg); small salary; good references; country, Yorks or Lincs, preferred. Hobson, c/o Andrews, Deeping St. James, near Peterborough.

CHEMIST-OPTICIAN, M.P.S., F.S.M.C., young, energetic, desires Partnership or post in progressive business with view to Partnership; would consider any post with good prospects. P.C.B. 7/24, Office of this Paper.

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DISENGAGED September 12; unqualified; 47; married; active; all-round experience; Midlands; excellent references. Grace, 47 Mill Street, Cannock, Staffs.

DISENGAGED September; thoroughly competent man; Assistant or Branch Manager; 25 years' practical experience; interview preferred. "Sept.," 50/51, Office of this Paper.

ENERGETIC young man, unqualified, experienced all branches, Wholesale and Retail, requires post with scope for advancement; Public School, and not afraid of work; 8-hour D. and P. service if an asset. 49/31, Office of this Paper.

EXPERIENCED Manager; Dispensing, Photography, Optics, Window-dressing, etc.; unqualified; nominal salary if permanent. "Southern," 10 Trinity Street, Hastings.

F.S.M.C., QUALIFIED Chemist, seeks situation, Manager or Senior; within 20 miles London preferred. "D. M.," 12 Turner Road, S.E.13.

JUNIOR, young, tall, requires situation; good experience in Dispensing and Counter; disengaged September 14. (Town with recognised Institute for Part I preferred.) Rippin, Gasworks, Kidwelly, Carmarthenshire.

JUNIOR Assistant, 20; Counter and Dispensing; tall, of good appearance, energetic; N. or E. London. 50/15, Office of this Paper.

LADY, age 21, seeks situation in S.W. London; excellent references; good Dispenser and Saleswoman; after August 31. 50/5, Office of this Paper.

LADY Assistant desires post; 7 years' experience Dispensing, Counter and Book-keeping. Miss English, c/o Mr. G. English, 177 Wednesbury Road, Walsall.

LADY Dispenser, qualified, well experienced, desires post; Doctor or Hospital preferred; disengaged middle October. 51/29, Office of this Paper.

LADY Assistant, unqualified, desires post in London; Counter, Photographic and Window-dressing; 8 years' experience. 50/34, Office of this Paper.

LOCUM; highest references; disengaged September 19 onwards; very moderate terms; take entire charge. "Chemicus," Evans Lescher Ltd., Chemists, Liverpool.

LOCUM or permanency; 37; experienced in Dispensing, Counter, Prescribing Stock; competent. Harries, 6 Trigon Road, Fentiman Road, S.W.8.

LOCUM (Principals only); qualified; experienced fourteen counties; disengaged after 29th. "Pharmacist," 21 Priory Park Road, N.W.6.

LOCUM; qualified; disengaged September 16; competent and reliable. Muriel Price, c/o Tamplin & Son, Eden Street, Kingston-on-Thames.

LOCUM; free August 31 to September 12 inclusive; Optics, Dispensing, Management; qualified. "Chemist," 55 Geraldine Road, Winstow, S.W.

LOCUM or Manager; qualified; 35; excellent testimonials; disengaged September 14 onwards. C/o Hay, Chemist, Lower Road, Rotherhithe, S.E.

LOCUM (45); thoroughly experienced and reliable (Hall certificate); terms moderate; free August 31. "Scotia," 172 St. James Road, Croydon.

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MANAGER, 28, married, qualified (Silver Medallist), desires responsible position in coast town; expert Window-dresser, Buyer, Photographics, Counter, etc.; at present managing £5,000 a year business; disengaged October 1; excellent references. Apply 48/3, Office of this Paper.

MANAGER (qualified), age 35, married, desires permanency; good all-round experience, including Optics and Photographics. 50/14, Office of this Paper.

PHARMACIST, many years Manager, London and provinces, desires change, good-class business, London district; first-class all-round experience; sober; married; reliable; disengaged end of September; living accommodation desirable. 51/7, Office of this Paper.

QUALIFIED; age 22; height 5 ft. 10½ in.; varied experience, town and country, Counter, Dispensing, Photographic; disengaged September 5; good references; Southern Counties preferred. Rutter, 76 Church Road, Manor Park.

QUALIFIED, 26, tall, good experience, including West End and City, Dispensing and Photographic, requires position; London preferred; good references. C. F. Castle, 121 Cornwall Road, Bayswater, W.11.

QUALIFIED; 24; Scottish training; excellent references; London district preferred; as Dispenser or small branch; free September 12. 50/11, Office of this Paper.

QUALIFIED desires change; age 27; single; excellent experience; quick and accurate Dispenser; desires permanency; disengaged October; S.W. London or London district preferred, but not essential. 51/32, Office of this Paper.

QUALIFIED requires post with a good Firm of Shipping Chemists; 24; single; all-round experience; at present managing business with some shipping connection, but would like experience with larger firm; moderate salary. References and further particulars on application to 50/37, Office of this Paper.

SCOTCHMAN; young; qualified; home or abroad; Senior or Manager (at present); excellent Dispensing and general Retail experience. "Confidential," 48/9, Office of this Paper.

SCOTCHMAN, qualified, experienced, 42, desires Management; London or suburbs; disengaged September 14; good references. "Chemist," 31 Ellington Road, Ramsgate.

UNQUALIFIED Assistant, passed Part I, requires a permanent position in Retail Pharmacy; knowledge of Dispensing and Photography; London preferred. Reply "Bromide," 74a Bedford Road, London, S.W.4.

UNQUALIFIED, tall, 9 years' exceptional experience, Dispenser, Prescriber, Salesman, capable entire charge, desires permanency; not disengaged; state salary. Write 49/28, Office of this Paper.

WM. HEAP, JUNR., 20, wants three or four months, commencing September 21, with Chemist-Optician, for practical experience in Optics; wages immaterial; Matriculant, Part I; part qualification in Optics and Sight Testing; four years' high-class Dispensing and Counter experience. 276 Derby Street, Bolton, Lancashire.

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PHARMACIST, 36, desires post as Representative with good-class Wholesale House; Manager 5 years present situation; tall; good appearance; excellent testimonials; conscientious and willing. 48/8, Office of this Paper.

POSITION wanted as Checker or Stock-keeper; 9 years' experience Wholesale Warehouse; excellent references; aged 24; disengaged; good worker. 48/1, Office of this Paper.

REPRESENTATIVE, twenty years' sound connection North of England, first-class Pharmacist, desires a change; open to engagement. Conway Dean, City Hotel, Lime Street, Liverpool.

YOUNG man, fully experienced Foreign Patents, Toilets, Sundries, seeks situation, preferably Outdoors Representative; good connection London Drapers, Chemists. P.C.B. 7/11, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN,]

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